Amerimax Exterior Home Products Alumawood™ Patio Cover, Carport and Commercial Structure Engineering 2021 IBC

ATTACHMENT 4

PAGES	DRAWING	SECTION DESCRIPTION
2 PAGES	GN01-2021 GN02-2021	GENERAL NOTES
1 PAGE		PROFESSIONAL ENGINEERING STAMPS PAGE
2 PAGES	SC01-2021 SC02-2021	SOLID PANEL STRUCTURAL CONFIGURATIONS ALUMAWOOD STRUCTURAL CONFIGURATIONS
4 PAGES		SECTION 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
38 PAGES		SECTION 2.0 POST SPACING, POST TYPE AND FOOTING SIZE FOR LATTICE COVERS
4 PAGES	LT01-2021 LT02-2021 LT03-2021 LT04-2021	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
7 PAGES		SECTION 4.0 SOLID COVER PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
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9 PAGES	CD01-2021 CD02-2021 CD03-2021 CD04-2021 CD05-2021 CD06-2021 CD07-2021 CD08-2021 CD09-2021	COMPONENT PARTS AND CONNECTION DETAILS
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	Misc6-2021	7.0 FORCES ON EXISTING STRUCTURES
	Misc7-2021	STRUCTURAL PROPERTIES OF BEAMS, FASCIA, PANELS AND RAFTERS FOR USE BY DESIGN PROFESSIONALS
	Misc8-2021	CONCRETE SLAB REQUIREMENTS FOR CONSTRAINED FOOTINGS

Ramon Rochin
48440 Charlton Peak St
Coachella,CA 92236

Live Load: 10 psf
Wind Speed: up to 130 mph Exp C

PROFESSIONAL ENGINEER
CARL PUTNAM
C68139
EXP. 6/30/2025
CIVIL
STATE OF CALIFORNIA

Digitally signed by Carl M Putnam
Date: 2023.05.09 13:56:41 -04'00'

December 16, 2022

GENERAL NOTES:

1. DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AND THE 2022 CALIFORNIA BUILDING CODE. THIS DESIGN ALSO CONFORMS TO THE 2021 IRC AND 2022 CRC.

2. ALUMINUM DESIGN IN ACCORDANCE WITH THE 2020 EDITION OF ALUMINUM ASSOCIATION'S SPECIFICATIONS AND CHAPTER 20 OF THE INTERNATIONAL BUILDING CODE.

3. DESIGN LOADINGS: Ct = 1.2, I = 1.0, Ce = 1.0 (ALL EXPOSURES EXCEPT B AND C WHEN LOCATED TIGHT AMONG CONIFERS)

GROUND SNOW LOAD	DESIGN LOAD	
10 PSF	10 PSF	LIVE LOAD ONLY
15 PSF	15 PSF	DESIGN ROOF SNOW LOAD
20 PSF	20 PSF	LIVE LOAD ONLY
25 PSF	21.0 PSF	DESIGN ROOF SNOW LOAD
30 PSF	25.2 PSF	DESIGN ROOF SNOW LOAD
35.7 PSF	30.0 PSF	DESIGN ROOF SNOW LOAD
42 PSF	35.3 PSF	DESIGN ROOF SNOW LOAD
50 PSF	42.0 PSF	DESIGN ROOF SNOW LOAD
60 PSF	50.4 PSF	DESIGN ROOF SNOW LOAD

FOR 0.25/12 < SLOPE < 1/12

WIND SPEEDS IN THE 2021 IBC ARE "BASIC DESIGN WIND SPEED". ALL STRUCTURES DESCRIBED IN THIS REPORT ARE DESIGNED USING PRESSURES CALCULATED FROM "BASIC DESIGN WIND SPEEDS" FOR RISK CATEGORY II. FOR ATTACHED STRUCTURES THE MAXIMUM MEAN ROOF HEIGHT OF THE EXISTING STRUCTURE IS 30'. Kzt WAS ASSUMED AS 1.0 FOR ALL WIND LOADS. SITE LOCATIONS REQUIRING HIGHER A HIGHER Kzt VALUE (ISOLATED HILLS, RIDGES, ESCARPMENTS) WILL REQUIRE HIGHER WIND LOADS AS PER ASCE7-16 SECTION 26.8 AND ARE OUTSIDE THE SCOPE OF THIS REPORT.

NOTE: EXPOSURE B: SHALL APPLY WHEN THE GROUND SURFACE ROUGHNESS CATEGORY B (URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN W/ NUMEROUS CLOSELY SPACED OBSTRUCTIONS HAVING THE SIZE OF A SINGLE FAMILY DWELLING OR LARGER) PREVAILS IN THE UPWIND DIRECTION FOR A DISTANCE OF AT LEAST 1500 FT.

EXPOSURE C: SHALL APPLY WHEN EXPOSURE B AND D (SMOOTH MUD FLATS, SALT FLATS, UNBROKEN ICE AND OTHER) DO NOT.

SEISMIC LOADING
MAXIMUM Ss = 150% SHOWN IN 2021 IBC FIGURE 1613.2.1(1)
Ss > 150% ARE NOT REQUIRED AS PER ASCE7-16 12.14.8.1
S1 NOT APPLICABLE TO THESE STRUCTURES
SITE CLASS = D
BASIC SEISMIC FORCE RESISTING SYSTEM
POSTS EMBEDDED INTO FOOTINGS =ORDINARY STEEL MOMENT FRAME >> R = 1.25
POSTS SURFACE MOUNTED = GENERIC SYSTEM >> R= 1.25
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE

THESE ROOFS ARE NOT SUBJECT TO MAINTENANCE WORKERS AND HAVE NOT BEEN EVALUATED FOR A CONCENTRATED 300 LBF LOAD.

THE BASIS OF THE DESIGN FORCES ARE IN ACCORDANCE WITH THE BASIC LOAD COMBINATIONS DESCRIBED IN 2021 IBC SECTION 1605.1 INCLUDING EXCEPTION #2 AND ASCE7-16 SECTION 2.4 AND NO FURTHER INCREASES ARE PERMITTED FOR PATIO COVERS RESISTING WIND OR SEISMIC FORCES.

4. THIS ENTIRE ENGINEERING PACKAGE IS NOT REQUIRED FOR MOST BUILDING PERMITS. SUBMISSION FOR A BUILDING PERMIT MUST INCLUDE:
a. GENERAL NOTES (2 PAGES)
b. STRUCTURAL CONFIGURATIONS (1 OR 2 PAGES)
c. RAFTER SPAN TABLES (FOR LATTICE STRUCTURES), PANEL SPAN TABLES FOR SOLID COVER STRUCTURES) OR BOTH (FOR COMBINATION STRUCTURES)
d. HEADER POST SPACING, FOOTING SIZE AND POST TABLE FOR LIVE/SNOW AND WIND LOAD
e. ALL APPROPRIATE DETAILS
f. OTHER DOCUMENTATION REQUIRED BY LOCAL BUILDING AUTHORITY.

5. CONCRETE MIX: CONCRETE WILL MEET THE DURABILITY REQUIREMENTS OF ACI 318-19. PATIO STRUCTURES MAY BE ATTACHED TO CONCRETE SLAB WITHOUT FOOTINGS WHEN THE POST LOAD IS 750# OR LESS AND THE FROST DEPTH IS ZERO. CONCRETE SHALL BE A MINIMUM OF 3.5 INCHES THICK AND NO CRACKS WITHIN 2'-6" OF POSTS. POSTS AND CONCRETE ANCHORS SHALL BE SET BACK A MINIMUM OF 4 INCHES FROM EDGE OR EXPANSION JOINT OF A SLAB.

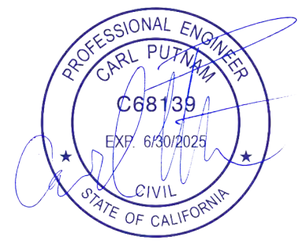
6. FOOTINGS HAVE BEEN DESIGNED FOR CLASS 5 SOIL AS PER 2021 IBC TABLE 1806.2. ALLOWABLE FOUNDATION PRESSURE IS 1500 POUNDS PER SQUARE FOOT. LATERAL BEARING PRESSURE IS 100 PSF/FT AND IS DOUBLED PER 2021 IBC SECTION 1806.3.4. THESE DESIGN VALUES DO NOT APPLY TO MUD, ORGANIC SILTS, ORGANIC CLAYS, PEAT OR UNPREPARED FILLS AND MAY REQUIRE FURTHER SOIL INVESTIGATION. THE BUILDING OFFICIAL MAY ASSIGN A LOAD BEARING CAPACITY. UNITS IN SNOW/LIVE LOAD AREA OF 25 PSF OR LESS MAY BE BUILT ON 1000 PSF BEARING SOIL W/O ADDITIONAL ENGINEERING. MINIMUM FOOTING DEPTH IS THE LOCAL FROST DEPTH.

7. 20 PSF AND HIGHER LIVE LOAD STRUCTURES MAY BE USED AS COVERS FOR PARKING OF MOTOR VEHICLES. CARPORTS MUST HAVE AT LEAST TWO OPEN SIDES AND HAVE FLOOR SURFACES MADE OF APPROVED NONCOMBUSTIBLE MATERIAL OR ASPHALT.

8. AT LEAST ONE HORIZONTAL DIMENSION (PROJECTION OR WIDTH) OF FREESTANDING COVERS SHALL BE LESS THAN 30'.

9. ALL STEEL SHALL BE GALVANIZED ASTM A-653 G90, A123 G45 OR A153 B-3, PAINTED ASTM A755 OR USE AN APPROVED COATING COMPLYING WITH 2021 IBC SECTION 2203.1.

10. ALTERNATE ALUMINUM ALLOYS OF EQUAL OR HIGHER STRENGTHS MAY BE USED. 3004H2x ALUMINUM MAY BE SUBSTITUTED FOR 3004H3x.



MAY 09 2023

Amerimax™
EXTERIOR HOME PRODUCTS

28921 US Hwy 74
Romoland, CA 92585

DRAWN BY: CMP		
SCALE: NONE	DRAWING OR PART NAME: GENERAL NOTES	
DATE:	DRAWING OR PART NUMBER: GN01–2021	SHEET: 1 OF 2

GENERAL NOTES:
(CONTINUED FROM SHEET NO. 1)

11. STEEL FASTENERS SHALL BE EITHER STAINLESS (300 SERIES), GALVANIZED OR DOUBLE CADMIUM PLATED. BOLTS SHALL BE ASTM A-307 HOT DIPPED GALVANIZED, MECHANICALLY GALVANIZED, ZINC ELECTROPLATED, ALUMINIZED OR 300 SERIES STAINLESS STEEL. CONCRETE ANCHOR BOLTS ARE SPECIFIED IN THE DETAILS. ALL WOOD SCREWS MUST COMPLY WITH ANSI/ASME STANDARD B18.6.1 AND AWC NDS-18 12.1.5. ALL LAG SCREWS MUST COMPLY WITH ANSI/ASME B18.2.1 AND AWC NDS-18 12.1.4. ALL STEEL WASHERS TO BE ASTM F844 W/ DIMENSIONS IN ACCORDANCE WITH ASME B18.22.1, TYPE A. ALL STEEL NUTS TO BE ASTM A563. THE MINIMUM WASHER DIAMETER SHALL BE 1" FOR BOLTED CONNECTIONS. SCREWS AND BOLTS WILL HAVE A MINIMUM EDGE DISTANCE OF 2X FASTENER DIAMETER.

12. EMBEDDED POST SURFACES SHALL BE CLEAN AND FREE FROM OILY SURFACES.

13. HEADER SPLICES SHALL NOT BE LOCATED NEARER TO THE END OF THE STRUCTURE THAN THE FIRST INTERIOR POST. (EXCEPT FOR FULL STRENGTH SPLICES) FULL STRENGTH SPLICES (DETAILS U, AND X) MAY BE LOCATED ANYWHERE.

14. ALL SELF DRILLING AND SELF TAPPING SCREWS MUST COMPLY TO ICC- ESR 1271, 1408, 1976, 2196, 3006, 3215, 3223, 3231, 3294, 3332, 3528, 3558, 4229, 5057, 4374 OR EQUIVALENT AND USE HEADS W/ DIAMETERS EQUAL TO #8 =$\frac{5}{16}$", #10 = $\frac{3}{8}$", #12 = $\frac{13}{32}$" AND #14 = $\frac{1}{2}$" OR STEEL WASHERS OF SIMILAR DIAMETER AND AS PER GENERAL NOTE #11

15. STRUCTURES MAY NOT BE ENCLOSED IN ANY MANNER WITHOUT ADDITIONAL ENGINEERING ANALYSIS OR APPROVAL OF THE LOCAL BUILDING AUTHORITY.

16. ALUMINUM SOLID ROOF PANELS ARE CLASS A FIRE RATED AS INDICATED BY THE EXCEPTION #2 IN 2021 IBC SECTION 1505.2. ALUMINUM IS A NONCOMBUSTIBLE MATERIAL AS PER 2021 IBC CHAPTER 20 AND THE ALUM ASSOC. 2020 ALUMINUM DESIGN MANUAL (AA ADM 1) PART III SECTION 7.

17. STRUCTURES MAY BE ATTACHED TO EAVE OVERHANGS PER SCHEDULE.

18. WHERE ALUMINUM ALLOY PARTS ARE IN CONTACT WITH DISSIMILAR METALS (OTHER THAN STAINLESS, ALUMINIZED OR GALVANIZED STEEL) OR ABSORBENT BUILDING MATERIALS, LIKELY TO BE CONTINUOUSLY OR INTERMITTENTLY WET, THE FAYING SURFACES SHALL BE PAINTED OR OTHERWISE SEPARATED IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I SECTION M7.1 OR M7.2.

19. WHEN A SINGLE SPAN ATTACHED UNIT HAS POSTS ATTACHED TO A WOODEN DECK, THE MAXIMUM DEAD LOAD + ROOF LOAD FROM THE PATIO COVER IS 750 LBS AND THE POST SPACING SHALL NOT EXCEED THAT SPECIFIED FOR ATTACHING TO A CONCRETE SLAB. THE MAXIMUM CONNECTION UPLIFT LOAD IS 1162 LBS FOR 115 MPH EXP C WIND SPEED. THE EXISTING DECK STRUCTURE MUST BE ADEQUATE TO SUSTAIN THESE ADDITIONAL LOADS. THE STRUCTURAL ADEQUACY OF THE DECK TO SAFELY SUSTAIN THESE ADDITIONAL LOADS WILL REQUIRE APPROVAL BY LOCAL BUILDING AUTHORITY OR ADDITIONAL ENGINEERING. SEE DETAIL L13, N12 OR AL. CONSTRUCTION OUTSIDE OF THESE PARAMETERS MAY REQUIRE ADDITIONAL ENGINEERING.

20. NOTE INTENTIONALLY LEFT BLANK.

21. DRIFTING SNOW IS ADDRESSED IN DETAIL M4. SLIDING SNOW IS BEYOND THE SCOPE OF THIS REPORT.

22. ALL MULTISPAN TABLES AND DETAILS ASSUME EQUAL SPANS WITHIN 20%. ALL SPECIFICATIONS MUST BE BASED ON LONGEST ACTUAL SPAN.

23. WOOD USED IN CONNECTIONS SHALL BE PROTECTED FROM WEATHER AS PER IBC SECTION 1402.2 (WALLS) AND/OR 1503 (ROOFS), WHICHEVER IS MORE APPROPRIATE.

GENERAL NOTES FOR LATTICE STRUCTURES:
(PERTAINS TO LATTICE STRUCTURES ON DRAWINGS SC02 AND LT01 THRU LT04.)
1. SEE GENERAL NOTE #3 FOR LIVE AND SNOW LOADS.

2. NOTE INTENTIONALLY LEFT BLANK.

3. SINGLE SPAN ATTACHED LATTICE STRUCTURES THAT DO NOT USE DETAIL L29 ON SHEET LT03 or M5 ON SHEET Misc1b MUST COMPLY WITH TABLE L1 AND L2 ON SHEET Misc5a OR Misc5b.

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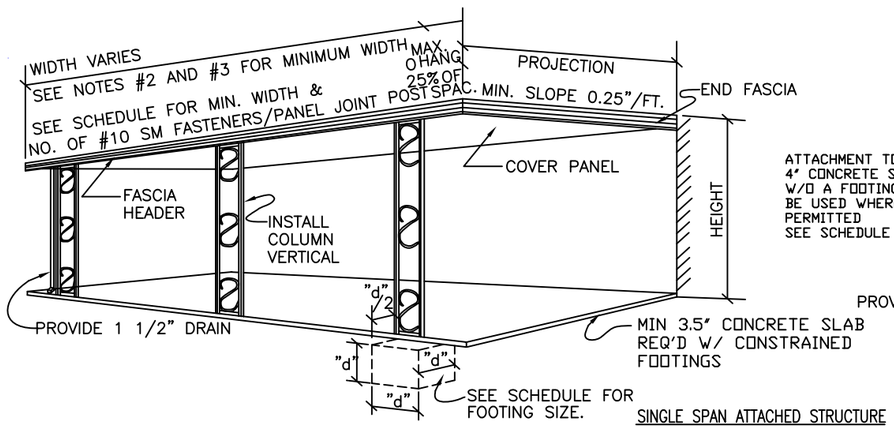
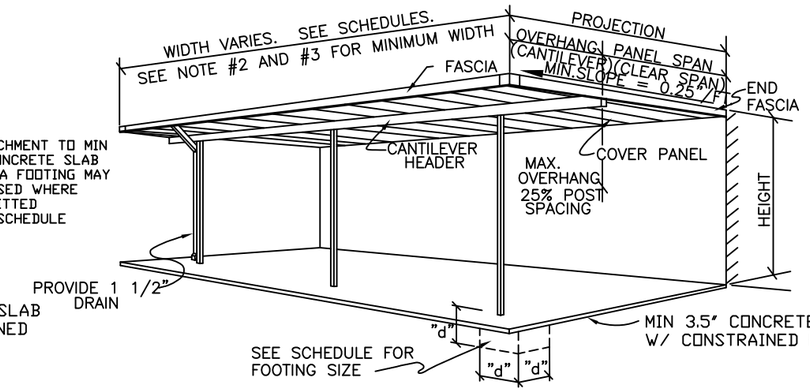
DRAWN BY: CMP		
SCALE: NONE	DRAWING OR PART NAME: GENERAL NOTES	
DATE:	DRAWING OR PART: GN02-2021	SHEET: 2 OF 2



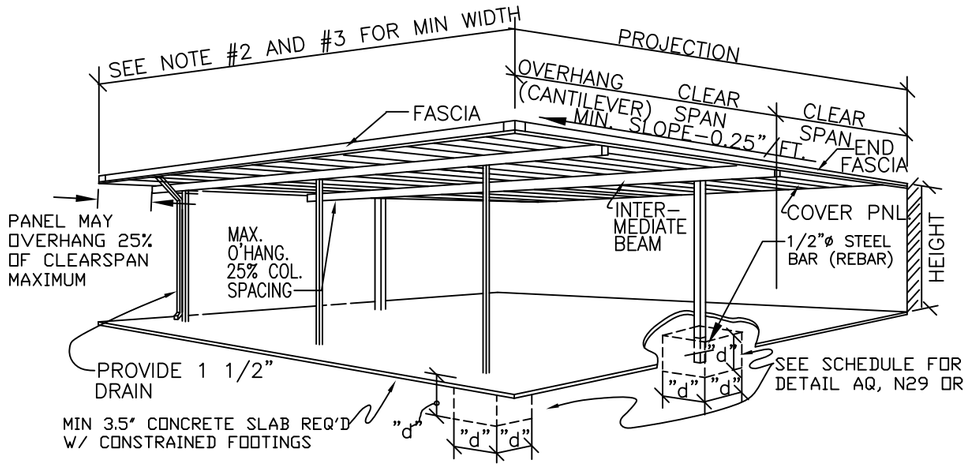
SINGLE SPAN ATTACHED STRUCTURE



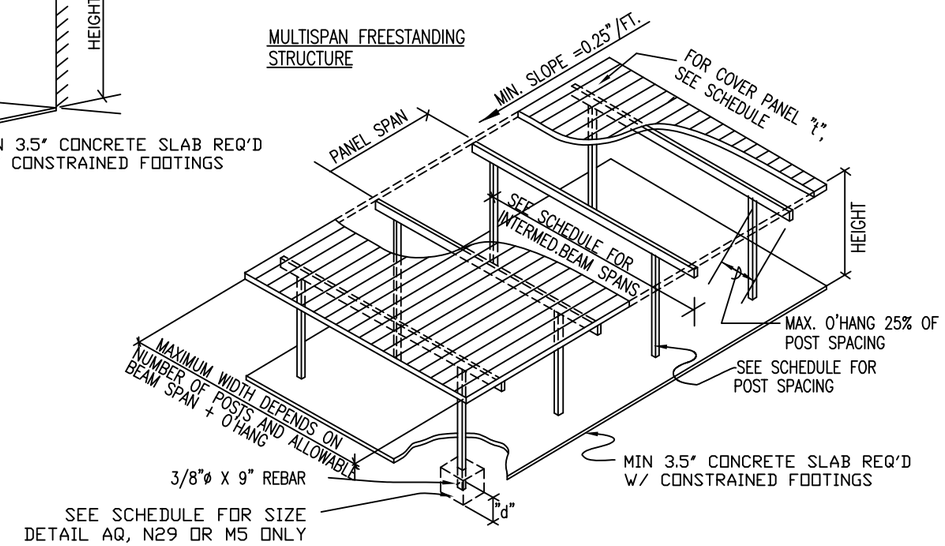
SINGLE SPAN ATTACHED CANTILEVERED STRUCTURE

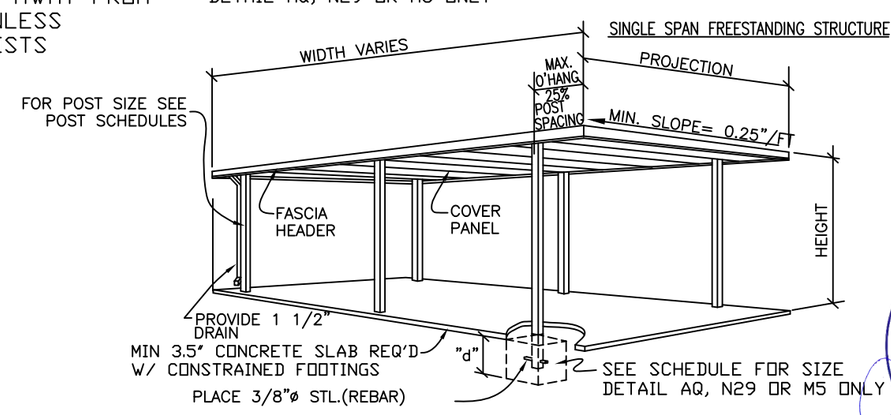
NOTES:

1. SEE SCHEDULES FOR POST SPACING
2. MIN WIDTH IS 100% OF PROJECTION FOR WIND SPEEDS UP TO 150 MPH EXP C. HIGHER WIND SPEEDS MUST BE 110%
3. THERE IS NO MINIMUM WIDTH IF USING CONSTRAINED OR NONCONSTRAINED FOOTINGS AND DETAILS N29, AQ OR M5.
4. ROOF SLOPE IS ALWAYS AWAY FROM EXISTING STRUCTURE UNLESS ADEQUATE DRAINAGE EXISTS



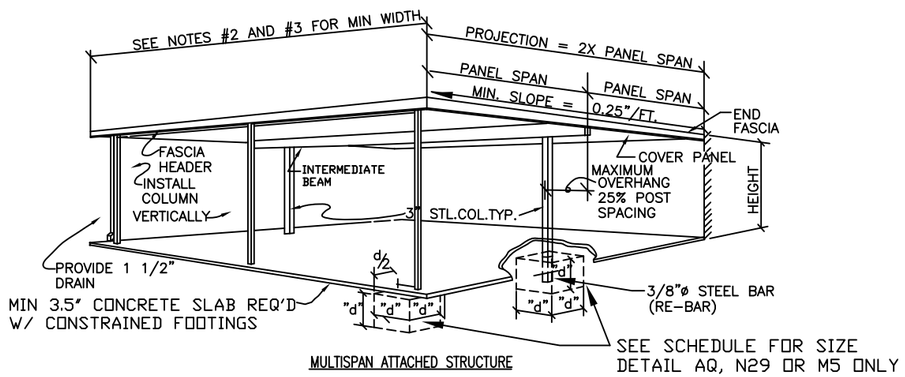
MULTISPAN ATTACHED CANTILEVERED STRUCTURE



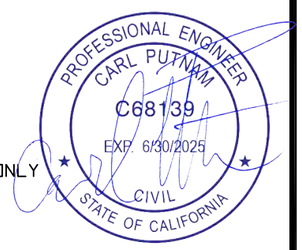


PATIO COVERS ARE LIMITED TO 12' HEIGHT. CARPORTS AND COMMERCIAL STRUCTURES ARE LIMITED TO 15' HEIGHT.

NONCONSTRAINED FOOTINGS DO NOT REQUIRE A CONCRETE SLAB



MULTISPAN ATTACHED STRUCTURE



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DRAWN BY: CMP		
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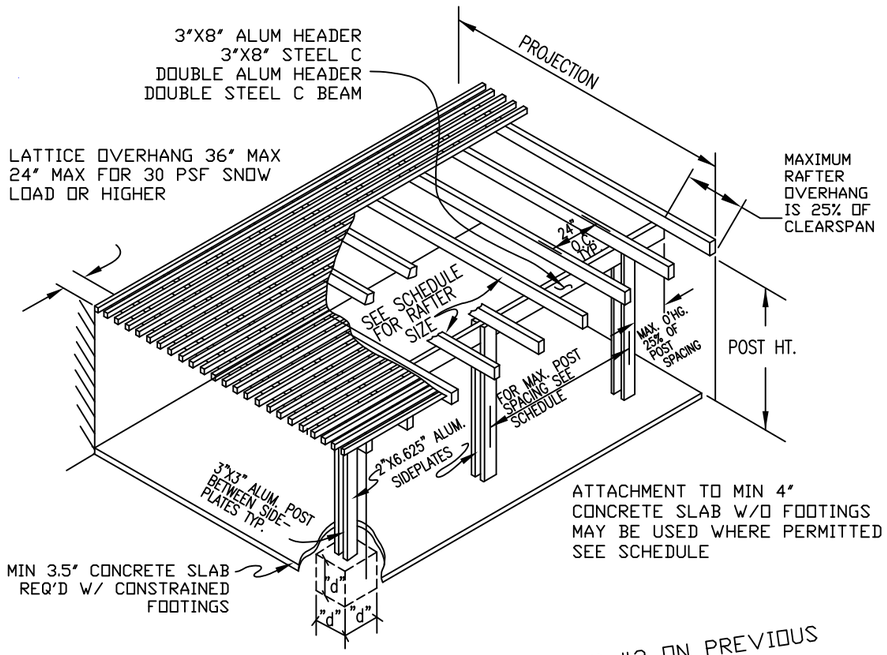
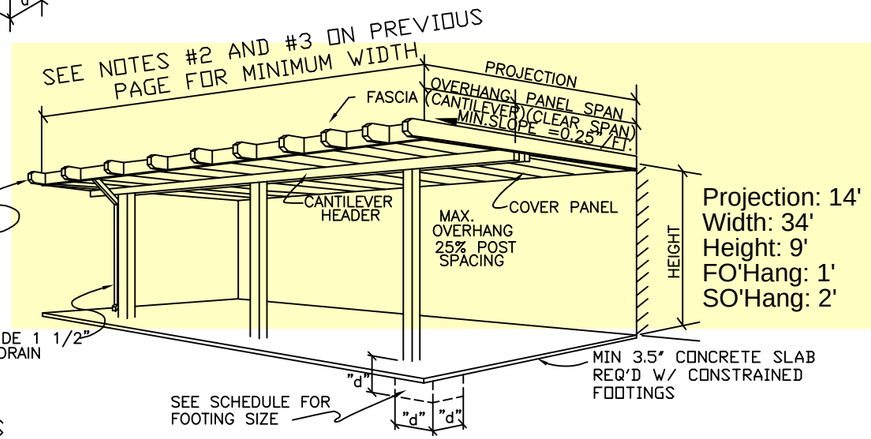
DATE:	DRAWING OR PART NUMBER: SC01-2021	SHEET 1 OF 2



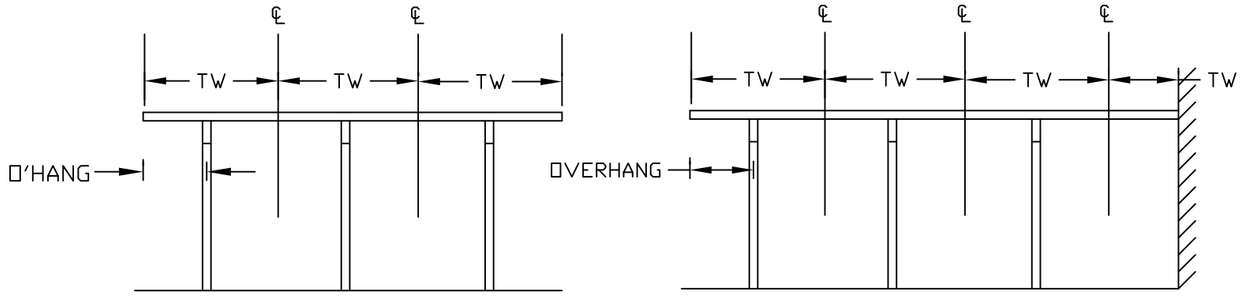


SINGLE SPAN ATTACHED
LATTICE STRUCTURE

Projection: 14'
Width: 34'
Height: 9'
FO'Hang: 1'
SO'Hang: 2'

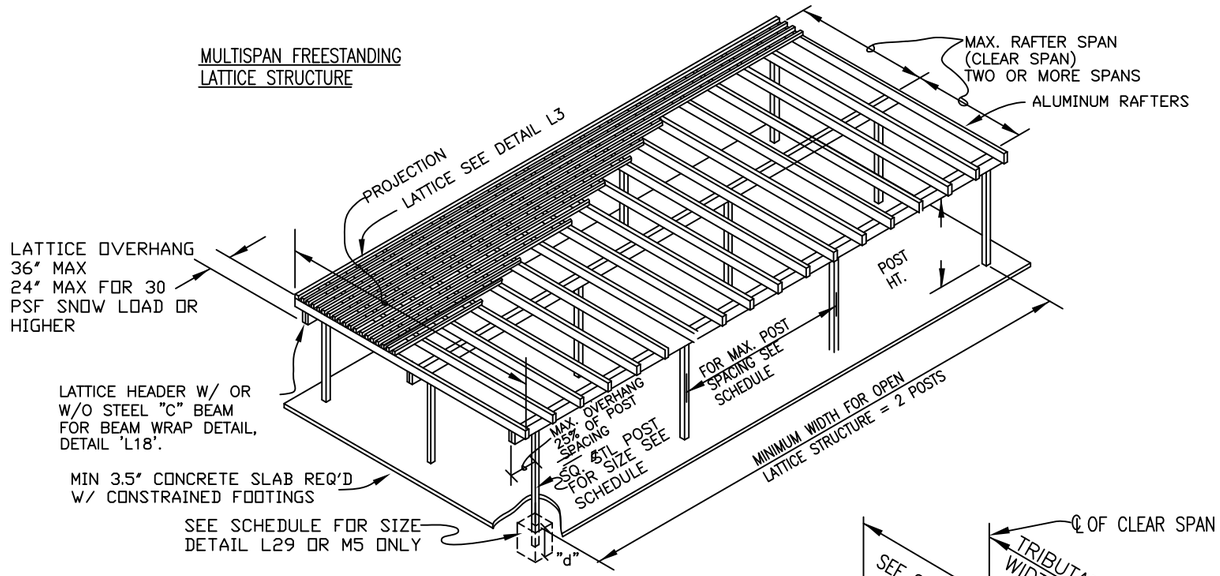
SINGLE SPAN ATTACHED CANTILEVERED STRUCTURE

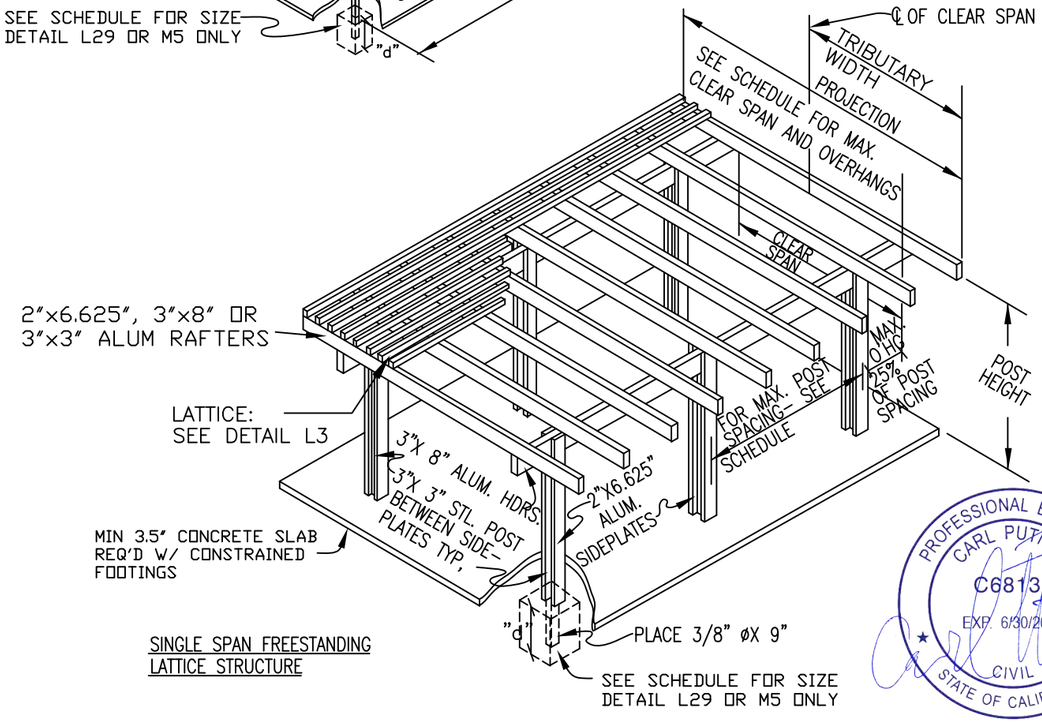
MULTISPAN UNITS
REFER TO GENERAL
NOTE 22.



TRIBUTARY WIDTH (TW) DIAGRAM

MULTISPAN FREESTANDING
LATTICE STRUCTURE





SINGLE SPAN FREESTANDING
LATTICE STRUCTURE

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DRAWN BY: CMP		
SCALE: NONE	DRAWING OR PART NAME: ALUMAWOOD STRUCTURAL CONFIGURATIONS	
DATE:	DRAWING OR PART NUMBER: SCO2-2021	SHEET: 2 OF 2

SECTION 4.0 SOLID COVER INSTRUCTIONS AND POST TABLES

GENERAL INSTRUCTIONS FOR THESE TABLES

1. CHOOSE FREESTANDING OR ATTACHED STRUCTURE
2. CHOOSE PROJECTION (DIMENSION PARALLEL W/ PANELS), WIDTH (DIMENSION PERP TO PANELS) AND OVERHANG OF UNIT
3. DETERMINE WIND, LIVE (OR GROUND SNOW LOAD) AND Ss (see Gen Not #3) OF STRUCTURE SITE
   (PATIO COVERS USE 10 PSF MIN, CARPORT & COMMERCIAL UNITS USE 20 PSF MIN)
4. a. DETERMINE IF PANELS ARE SINGLE OR MULTISPAN. CHOOSE A PANEL FROM **SECTION 4.0** THAT HAS ADEQUATE CLEARSPAN FOR YOUR NEEDS.
   b. FOR AN ATTACHED STRUCTURE, CONFIRM THE ALLOWABLE SPAN BASED ON THE PANEL SUPPORT DETAIL.
   c. DETERMINE THE PANEL TO HEADER FASTENING REQUIREMENTS
5. DETERMINE TRIBUTARY WIDTH FROM TABLE 4.1 OR CALCULATE FROM TRIBUTARY DIAGRAM ON SC02 PAGE 2 OF 2
6. LOCATE HEADER TABLE IN **SECTION 5.0** W/ CORRECT PARAMETERS
   a. GROUND SNOW LOAD, SEE GEN NOTE #3
   b. LIVE LOAD, SEE #3 ABOVE
   c. WIND SPEED, SEE GEN NOTE #3
   d. EXPOSURE, SEE GEN NOTE #3
   e. SEISMIC, SEE GEN NOTE #3
   f. ATTACHED OR FREESTANDING
   g. TRIBUTARY WIDTH
   h. a-e ARE SET BY YOUR LOCAL BUILDING AUTHORITY
7. CHOOSE A HEADER FROM TABLES IN **SECTION 5.0** THAT HAS ADEQUATE POST SPACING. FOR PATIO COVERS SUPPORTED BY CONCRETE SLAB GOT TO STEP SLAB7
8. DETERMINE FOOTING SIZE
   USE THE UPLIFT FOOTING IF BOTH OF THESE CONDITIONS ARE MET
   a. STRUCTURE IS ATTACHED TO AN EXISTING STRUCTURE
   b. PROJECTION IS EQUAL OR SHORTER THAN WIDTH (SEE SHEET SCO1) OR TABLES L1 AND L2 ON MISC5 ARE SATISFIED
   c. GO TO #9a TO DETERMINE POST TYPE
   IF **EITHER** 8a OR 8b ARE **NOT** TRUE THEN:
   d. CHOOSE CONSTRAINED FOOTING SIZE FROM SECTION 5.0 BASED ON THE POST HEIGHT
   e. USE THE **LARGER** OF THE UPLIFT OR CONSTRAINED FOOTING SIZE
   f. CONSTRAINED FOOTINGS **MUST** USE DETAIL N29, AQ OR M5
   g. GO TO 9b
9. DETERMINE POST TYPE
   a. IF **BOTH** 8a AND 8b ARE TRUE THEN USE POST SHOWN IN TABLE IN SECTION 5.0 UNDER MIN POST TYPE. CROSS REFERENCE LETTER CODE W/ TABLE 4.2
   IF THIS POST'S MAX HEIGHT IS TOO SHORT, UPGRADE THE POST.
   EXAMPLE: IF POST CODE FROM SECTION 5.0 IS H3, WHICH HAS A MAX HEIGHT OF 9' BUT A 10' IS DESIRED THEN UPGRADE POST TO TYPE I1
   b. IF EITHER 8a OR 8b ARE **NOT** TRUE THEN:
   DETERMINE POST TYPE FROM CROSS REFERENCING THE UPLIFT FOOTING AND CONSTRAINED FOOTING ON TABLE 4.3
   example 1: A 40" UPLIFT FOOTING AND A 20" CONSTRAINED FOOTING ARE REQUIRED. POST TYPE "H4" IS REQUIRED. TABLE 4.2 SHOWS POST TYPE "H4" TO BE A 0.041"X3"X3" STEEL CLOVER POST WITH A MAX HEIGHT OF 8'.
   example 2: A 20" UPLIFT FOOTING AND A 40" CONSTRAINED FOOTING ARE REQUIRED. POST TYPE "K2" IS REQUIRED. TABLE 4.2 SHOWS POST TYPE "K2" TO BE A 3/16"X4"X4" STEEL POST WITH A MAX HEIGHT OF 12'.
10. DETERMINE HEADER TO POST OR EXISTING STRUCTURE REQUIREMENTS
11. USE THE APPROPRIATE DETAILS (N1-N35 on SHEETS NP01-NP04 or A-BM ON SHEETS CD01-CD09)
12. UPLIFT FOOTING MAY CHANGE SHAPE (ROUND, SET DEPTH) OR REDUCE SIZE USING TABLES 7.8, 7.9, 7.10, 7.11 AND 7.12.
13. CONSTRAINED FOOTINGS MAY CHANGE SHAPE OR BECOME NONCONSTRAINED USING TABLE 7.8 CONSTRAINED FOOTINGS MAY BE REDUCED IN SIZE USING TABLE 7.12

FOR PATIO SLABS FOLLOW 1-7 FROM ABOVE THEN

SLAB 7. FROM THE APPLICABLE TABLE IN SECTION 5.0, USE THE **SMALLER** OF THE POST SPACING "ON SLAB" OR HEADER POST SPACING
SLAB 8. BOTH 8a AND 8b MUST BE TRUE
SLAB 9. FOLLOW **9a** FROM ABOVE
SLAB 10. FOLLOW 10 AND 11 FROM ABOVE
SLAB 11. FOR **TWO** POST STRUCTURES USE **TABLE 7.1** ON SHEET **Misc3** TO DETERMINE **"ON SLAB"** POST POST SPACING REQUIREMENTS INSTEAD OF SECTION 5.0. **HEADER** POST SPACING REQUIREMENTS ARE STILL DETERMINED FROM SECTION 5.0

TABLE 4.1 TRIBUTARY WIDTHS FOR SINGLE SPAN ATTACHED STRUCTURES

OVER-HANG	PROJECTION OF SINGLE SPAN STRUCTURES (FT)																
	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'
0'	3'	3.5'	4'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'
0.5'	3.25'	3.75'	4.25'	4.75'	5.25'	5.75'	6.25'	6.75'	7.25'	7.75'	8.25'	8.75'	9.25'	9.75'	10.3'	10.8'	11.3'
1'	3.5'	4'	4.5'	5'	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'
1.5'	n/a	4.25'	4.75'	5.25'	5.75'	6.25'	6.75'	7.25'	7.75'	8.25'	8.75'	9.25'	9.75'	10.3'	10.8'	11.3'	11.8'
2'	n/a	n/a	n/a	5.5'	6'	6.5'	7'	7.5'	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'
2.5'	n/a	n/a	n/a	n/a	n/a	6.75'	7.25'	7.75'	8.25'	8.75'	9.25'	9.75'	10.25'	10.8'	11.3'	11.8'	12.3'
3'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8'	8.5'	9'	9.5'	10'	10.5'	11'	11.5'	12'	12.5'
3.5'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.25'	9.75'	10.25'	10.75'	11.3'	11.8'	12.3'	12.8'
4'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.5'	11'	11.5'	12'	12.5'	13'
4.5'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11.8'	12.3'	12.8'	13.3'
5'	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	13'	13.5'

Table 4.2

Post Description	Max Hgt	POST Type	Detail
Twin 0.060"x1.5"x1.5" Scroll	10'	A1	AC
0.040"x3"x3" Aluminum Post	10'	A2	N14/Z
0.042"x3"x8" Aluminum Post	11'	A3	N30
0.024"x3"x3"Post with 0.024" Sideplates	10'	B	N16, BK
0.040"x3"x3"Post with 0.024" Sideplates	10'	C	N16, BK
Clover 0.030"x3"x3" Alum	11'	D	N11, AH
Clover 0.040"x3"x3" Alum	11'	E	N11, AH
0.040"x3"x3"Post with 0.032" Sideplates	10'	F	N16, BK
Colonial 0.062" Extruded	11'	G	AE
0.041"x3"x3" Steel Clover	11'	H1	N11, AH
0.041"x3"x3" Steel Clover	10'	H2	N11, AH
0.041"x3"x3" Steel Clover	9'	H3	N11, AH
0.041"x3"x3" Steel Clover	8'	H4	N11, AH
0.041"x3"x3" Steel Clover	7'	H5	N11, AH
1/8"x3"x3" Steel Square	12'	I1	N17, AG
1/8"x3"x3" Steel Square	10'	I2	N17, AG
3/16"x3"x3" Steel Square	12'	J1	N17, AG
3/16"x3"x3" Steel Square	10'	J2	N17, AG
3/16"x4"x4" Steel Square	15'	K1	N17, AG
3/16"x4"x4" Steel Square	12'	K2	N17, AG
3/16"x5"x5" Steel Square	15'	L1	N17, AG
3/16"x5"x5" Steel Square	12'	L2	N17, AG
3/16"x6"x6" Steel Square	15'	M1	N17, AG

TABLE 4.3

Uplift d (in)	Constrained d (in)																																
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
14	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
15	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
16	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
17	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
18	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
19	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
20	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
21	H1	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
22	H1	H1	H1	H1	H1	H1	H1	H2	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
23	H1	H1	H1	H1	H1	H1	H1	H2	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
24	H1	H1	H1	H1	H1	H1	H1	H3	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
25	H1	H1	H1	H1	H1	H1	H1	H4	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
26	H1	H1	H1	H1	H1	H1	H1	H5	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	M1
27	H1	H1	H1	H1	H1	H1	H1	H5	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
28	H1	H1	H1	H1	H1	H1	H1	I1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
29	H1	H1	H1	H1	H1	H1	H2	I1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
30	H1	H1	H1	H1	H1	H1	H3	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
31	H1	H1	H1	H1	H1	H1	H3	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
32	H1	H1	H1	H1	H1	H2	H4	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
33	H1	H1	H1	H1	H1	H2	H4	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
34	H1	H1	H1	H1	H1	H3	H5	I1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	0
35	H1	H1	H1	H1	H2	H3	I1	I1	I1	I1	I1	I1	I1	I1	I1	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	K2	M1	M1	M1	0
36	H1	H1	H1	H1	H2	H4	I1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	K2	M1	M1	M1	0
37	H1	H1	H1	H2	H3	H4	I1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	L1	M1	M1	M1	0
38	H1	H1	H1	H2	H3	H5	I1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	L1	M1	M1	M1	0
39	H1	H1	H2	H3	H4	H5	I1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J2	J2	J2	J2	J2	J2	J2	K2	K2	K2	K2	K2	L1	M1	M1	M1	0
40	H1	H2	H2	H3	H4	I1	I1	I1	I1	I1	I1	I1	I1	I2	I2	J1	J1	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	L1	M1	M1	M1	0
41	H2	H2	H3	H3	H4	I1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
42	H2	H3	H3	H4	H5	I1	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
43	H3	H3	H3	H4	H5	I1	I1	I1	I1	I1	I1	I1	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
44	H3	H3	H4	H5	I1	I1	I1	I1	I1	I1	I1	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
45	H3	H4	H4	H5	I1	I1	I1	I1	I1	I1	I1	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
46	H4	H4	H5	I1	I1	I1	I1	I1	I1	I1	I1	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
47	H4	H5	H5	I1	I1	I1	I1	I1	I1	I1	I1	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
48	H5	H5	I1	I1	I1	I1	I1	I1	I1	I1	I2	I2	I2	J1	J1	J2	J2	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	K2	M1	M1	M1	M1	0
49	H5	I1	I1	I1	I1	I1	I1	I1	I2	I2	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	K2	L1	M1	M1	M1	0
50	H5	I1	I1	I1	I1	I1	I1	I1	I2	I2	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	J2	K1	K2	K2	K2	K2	K2	K2	L1	M1	M1	M1	0
51	I1	I1	I1	I1	I1	I1	I1	I2	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	J2	K1	K1	K2	K2	K2	K2	K2	K2	L1	M1	M1	M1	M1	0
52	I1	I1	I1	I1	I1	I1	I2	I2	I2	I2	J1	J1	J1	J2	J2	J2	J2	J2	J2	J2	J2	K1	K1	K2	K2	K2	K2	K2	K2	L1	M1	M1	M1	M1	0

CL = P - OH = 14' - 1' = 13'

SECTION 4.0 SOLID COVER PANEL SPANS FOR **ATTACHED** COMMERCIAL AND PATIO STRUCTURES

2.5" x6" Super Six (Single Span) Detail N3, A

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	8'-4"	7'-11"	7'-3"	6'-8"	6'-2"	5'-9"	5'-5"
	0.024	10'-11"	10'-5"	9'-6"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	14'-2"	13'-6"	12'-4"	11'-4"	10'-6"	9'-9"	9'-2"
	0.036	15'-10"	15'-1"	13'-9"	12'-8"	11'-8"	10'-10"	10'-2"
15	0.018	8'-4"	7'-11"	7'-3"	6'-8"	6'-2"	5'-9"	5'-5"
	0.024	10'-11"	10'-5"	9'-6"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	14'-2"	13'-6"	12'-4"	11'-4"	10'-6"	9'-9"	9'-2"
	0.036	15'-10"	15'-1"	13'-9"	12'-8"	11'-8"	10'-10"	10'-2"
20	0.018	8'-4"	7'-11"	7'-3"	6'-8"	6'-2"	5'-9"	5'-5"
	0.024	10'-11"	10'-5"	9'-6"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	14'-2"	13'-6"	12'-4"	11'-4"	10'-6"	9'-9"	9'-2"
	0.036	15'-1"	14'-9"	13'-9"	12'-8"	11'-8"	10'-10"	10'-2"
25	0.018	8'-4"	7'-11"	7'-3"	6'-8"	6'-2"	5'-9"	5'-5"
	0.024	10'-11"	10'-5"	9'-6"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	14'-2"	13'-6"	12'-4"	11'-4"	10'-6"	9'-9"	9'-2"
	0.036	14'-11"	14'-9"	13'-9"	12'-8"	11'-8"	10'-10"	10'-2"
30	0.018	8'-3"	7'-11"	7'-3"	6'-8"	6'-2"	5'-9"	5'-5"
	0.024	10'-11"	10'-5"	9'-6"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	13'-9"	13'-6"	12'-4"	11'-4"	10'-6"	9'-9"	9'-2"
	0.036	14'-3"	14'-3"	13'-9"	12'-8"	11'-8"	10'-10"	10'-2"
35.7	0.018	7'-8"	7'-7"	7'-3"	6'-8"	6'-2"	5'-9"	5'-5"
	0.024	10'-5"	10'-2"	9'-6"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	13'-2"	13'-0"	12'-4"	11'-4"	10'-6"	9'-9"	9'-2"
	0.036	13'-10"	13'-9"	13'-6"	12'-8"	11'-8"	10'-10"	10'-2"
42	0.018	7'-4"	7'-3"	7'-1"	6'-8"	6'-2"	5'-9"	5'-5"
	0.024	9'-11"	9'-8"	9'-5"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	12'-6"	12'-4"	12'-1"	11'-4"	10'-6"	9'-9"	9'-2"
	0.036	13'-4"	13'-2"	12'-10"	12'-7"	11'-8"	10'-10"	10'-2"
50	0.018	6'-11"	6'-10"	6'-8"	6'-6"	6'-2"	5'-9"	5'-5"
	0.024	9'-4"	9'-2"	8'-11"	8'-9"	8'-1"	7'-7"	7'-1"
	0.032	11'-8"	11'-5"	11'-2"	10'-11"	10'-6"	9'-9"	9'-2"
	0.036	12'-7"	12'-5"	12'-2"	11'-8"	11'-4"	10'-10"	10'-2"

TABLE 4.12

3.5" x12 Super 12 (Single Span) Detail D

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	7'-5"	6'-8"	5'-6"	4'-8"	4'-1"	3'-7"	3'-2"
	0.024	13'-0"	12'-9"	12'-2"	11'-2"	10'-7"	9'-5"	8'-2"
	0.032	15'-8"	15'-4"	14'-3"	13'-8"	12'-11"	12'-3"	11'-4"
	0.036	16'-9"	16'-4"	15'-7"	14'-7"	13'-10"	13'-1"	12'-8"
15	0.018	7'-4"	6'-8"	5'-6"	4'-8"	4'-1"	3'-7"	3'-2"
	0.024	11'-8"	11'-5"	10'-9"	10'-5"	9'-11"	9'-5"	8'-2"
	0.032	13'-11"	13'-8"	13'-2"	12'-8"	12'-1"	11'-2"	10'-9"
	0.036	15'-3"	14'-7"	14'-1"	13'-7"	12'-11"	12'-6"	12'-0"
20	0.018	6'-4"	6'-1"	5'-6"	4'-8"	4'-1"	3'-7"	3'-2"
	0.024	10'-9"	10'-7"	10'-3"	9'-10"	9'-5"	9'-0"	8'-2"
	0.032	12'-11"	12'-8"	12'-3"	11'-6"	11'-1"	10'-8"	10'-3"
	0.036	13'-10"	13'-7"	13'-1"	12'-8"	12'-4"	11'-5"	11'-0"
25	0.018	6'-1"	5'-11"	5'-5"	4'-8"	4'-1"	3'-7"	3'-2"
	0.024	10'-7"	10'-5"	10'-1"	9'-8"	9'-5"	9'-0"	8'-2"
	0.032	12'-11"	12'-8"	12'-3"	11'-4"	11'-1"	10'-8"	10'-3"
	0.036	13'-10"	13'-7"	13'-1"	12'-6"	12'-2"	11'-5"	11'-0"
30	0.018	5'-7"	5'-5"	5'-0"	4'-7"	4'-1"	3'-7"	3'-2"
	0.024	10'-1"	9'-11"	9'-8"	9'-3"	8'-11"	8'-7"	8'-2"
	0.032	12'-1"	12'-1"	11'-4"	10'-11"	10'-6"	10'-2"	9'-10"
	0.036	12'-11"	12'-11"	12'-4"	12'-0"	11'-3"	10'-10"	10'-6"
35.7	0.018	5'-0"	4'-10"	4'-6"	4'-3"	4'-0"	3'-7"	3'-2"
	0.024	9'-8"	9'-5"	9'-2"	8'-11"	8'-7"	8'-4"	8'-1"
	0.032	11'-4"	11'-1"	10'-9"	10'-6"	10'-2"	9'-10"	9'-6"
	0.036	12'-4"	12'-2"	11'-6"	11'-3"	10'-10"	10'-6"	10'-2"
42	0.018	4'-6"	4'-4"	4'-2"	3'-11"	3'-8"	3'-6"	3'-2"
	0.024	9'-2"	8'-11"	8'-9"	8'-6"	8'-3"	8'-0"	7'-7"
	0.032	10'-9"	10'-6"	10'-3"	10'-0"	9'-9"	9'-5"	9'-2"
	0.036	11'-6"	11'-3"	11'-0"	10'-9"	10'-5"	10'-1"	9'-10"
50	0.018	4'-0"	3'-11"	3'-8"	3'-6"	3'-4"	3'-1"	2'-11"
	0.024	8'-7"	8'-5"	8'-3"	8'-1"	7'-9"	7'-5"	7'-1"
	0.032	10'-2"	9'-11"	9'-9"	9'-6"	9'-3"	9'-0"	8'-9"
	0.036	10'-10"	10'-8"	10'-5"	10'-2"	9'-11"	9'-8"	9'-5"

TABLE 4.13

2.5" x 12" Mark X (Single Span) Detail B

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	5'-5"	5'-2"	4'-10"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	7'-6"	7'-2"	6'-6"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	10'-4"	9'-10"	9'-0"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	11'-4"	10'-10"	9'-11"	9'-1"	8'-5"	7'-10"	7'-4"
15	0.018	5'-5"	5'-2"	4'-10"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	7'-6"	7'-2"	6'-6"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	10'-4"	9'-10"	9'-0"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	11'-4"	10'-10"	9'-11"	9'-1"	8'-5"	7'-10"	7'-4"
20	0.018	5'-5"	5'-2"	4'-10"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	7'-6"	7'-2"	6'-6"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	10'-4"	9'-10"	9'-0"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	11'-4"	10'-10"	9'-11"	9'-1"	8'-5"	7'-10"	7'-4"
25	0.018	5'-5"	5'-2"	4'-10"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	7'-6"	7'-2"	6'-6"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	10'-4"	9'-10"	9'-0"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	11'-4"	10'-10"	9'-11"	9'-1"	8'-5"	7'-10"	7'-4"
30	0.018	5'-5"	5'-2"	4'-10"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	7'-6"	7'-2"	6'-6"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	10'-3"	9'-10"	9'-0"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	11'-1"	10'-10"	9'-11"	9'-1"	8'-5"	7'-10"	7'-4"
35.7	0.018	5'-5"	5'-2"	4'-10"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	7'-2"	7'-1"	6'-6"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	9'-10"	9'-7"	9'-0"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	10'-8"	10'-5"	9'-11"	9'-1"	8'-5"	7'-10"	7'-4"
42	0.018	5'-1"	5'-1"	4'-10"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	6'-10"	6'-9"	6'-6"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	9'-4"	9'-1"	8'-10"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	10'-2"	9'-11"	9'-8"	9'-1"	8'-5"	7'-10"	7'-4"
50	0.018	4'-10"	4'-9"	4'-8"	4'-5"	4'-2"	3'-11"	3'-8"
	0.024	6'-5"	6'-4"	6'-2"	6'-0"	5'-7"	5'-2"	4'-11"
	0.032	8'-9"	8'-7"	8'-5"	8'-3"	7'-8"	7'-1"	6'-8"
	0.036	9'-7"	9'-4"	9'-2"	9'-0"	8'-5"	7'-10"	7'-4"

TABLE 4.14

2"x6" Flat Panel (Single Span) Detail N2, C

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	9'-2"	8'-9"	8'-5"	8'-1"	7'-5"	7'-0"	6'-8"
	0.024	12'-3"	12'-0"	11'-1"	10'-3"	9'-6"	8'-10"	8'-3"
	0.032	13'-5"	13'-2"	12'-10"	12'-5"	11'-11"	11'-1"	10'-5"
	0.040	14'-5"	14'-2"	13'-9"	13'-4"	12'-10"	12'-5"	11'-11"
15	0.018	8'-5"	8'-3"	7'-8"	7'-3"	7'-0"	6'-8"	6'-4"
	0.024	11'-1"	10'-10"	10'-3"	9'-11"	9'-6"	8'-10"	8'-3"
	0.032	12'-7"	12'-5"	12'-2"	11'-7"	11'-3"	10'-11"	10'-5"
	0.040	13'-7"	13'-4"	13'-0"	12'-9"	12'-4"	12'-1"	11'-5"
20	0.018	7'-8"	7'-6"	7'-2"	6'-10"	6'-7"	6'-4"	6'-2"
	0.024	10'-3"	10'-1"	9'-9"	9'-4"	9'-0"	8'-8"	8'-3"
	0.032	12'-0"	11'-8"	11'-5"	11'-1"	10'-10"	10'-7"	10'-4"
	0.040	12'-10"	12'-9"	12'-5"	12'-2"	11'-8"	11'-4"	11'-1"
25	0.018	7'-6"	7'-5"	7'-1"	6'-9"	6'-6"	6'-4"	6'-1"
	0.024	10'-1"	9'-11"	9'-8"	9'-3"	9'-0"	8'-8"	8'-3"
	0.032	12'-0"	11'-7"	11'-4"	11'-0"	10'-10"	10'-7"	10'-4"
	0.040	12'-10"	12'-9"	12'-5"	12'-1"	11'-8"	11'-4"	11'-1"
30	0.018	7'-2"	7'-1"	6'-9"	6'-6"	6'-4"	6'-1"	5'-11"
	0.024	9'-8"	9'-6"	9'-3"	8'-10"	8'-6"	8'-3"	8'-0"
	0.032	11'-4"	11'-3"	11'-0"	10'-9"	10'-6"	10'-2"	9'-10"
	0.040	12'-4"	12'-4"	11'-10"	11'-6"	11'-3"	11'-0"	10'-9"
35.7	0.018	6'-9"	6'-8"	6'-5"	6'-4"	6'-1"	5'-10"	5'-8"
	0.024	9'-3"	9'-0"	8'-9"	8'-6"	8'-3"	8'-0"	7'-6"
	0.032	11'-0"	10'-10"	10'-8"	10'-6"	10'-2"	9'-10"	9'-7"
	0.040	11'-10"	11'-8"	11'-5"	11'-3"	11'-0"	10'-9"	10'-7"
42	0.018	6'-5"	6'-4"	6'-3"	6'-0"	5'-10"	5'-8"	5'-6"
	0.024	8'-9"	8'-6"	8'-4"	8'-2"	7'-9"	7'-6"	7'-3"
	0.032	10'-8"	10'-6"	10'-4"	10'-1"	9'-9"	9'-6"	9'-3"
	0.040	11'-5"	11'-3"	11'-1"	10'-11"	10'-8"	10'-6"	10'-3"
50	0.018	6'-1"	6'-0"	5'-10"	5'-9"	5'-7"	5'-5"	5'-3"
	0.024	8'-3"	8'-1"	7'-9"	7'-7"	7'-4"	7'-1"	6'-11"
	0.032	10'-2"	10'-0"	9'-9"	9'-7"	9'-4"	9'-1"	8'-10"
	0.040	11'-0"	10'-10"	10'-8"	10'-7"	10'-4"	10'-2"	9'-11"

TABLE 4.15

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NOTE: PANELS MAY OVERHANG 25% OF THEIR CLEARSPAN

2.5" x6" Super Six (Multispan) Detail N3, A

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	8'-11"	8'-6"	7'-9"	7'-2"	6'-7"	6'-2"	5'-9"
	0.024	11'-5"	10'-11"	10'-1"	9'-4"	8'-9"	8'-1"	7'-7"
	0.032	14'-6"	13'-10"	12'-9"	11'-10"	11'-0"	10'-4"	9'-9"
	0.036	16'-0"	15'-3"	14'-1"	13'-0"	12'-2"	11'-4"	10'-8"
15	0.018	8'-5"	8'-3"	7'-9"	7'-2"	6'-7"	6'-2"	5'-9"
	0.024	10'-11"	10'-8"	10'-1"	9'-4"	8'-9"	8'-1"	7'-7"
	0.032	13'-9"	13'-6"	12'-9"	11'-10"	11'-0"	10'-4"	9'-9"
	0.036	15'-1"	14'-10"	14'-1"	13'-0"	12'-2"	11'-4"	10'-8"
20	0.018	7'-9"	7'-7"	7'-2"	6'-11"	6'-7"	6'-2"	5'-9"
	0.024	10'-3"	10'-1"	9'-9"	9'-4"	8'-9"	8'-1"	7'-7"
	0.032	13'-0"	12'-9"	12'-3"	11'-10"	11'-0"	10'-4"	9'-9"
	0.036	14'-3"	13'-11"	13'-6"	13'-0"	12'-2"	11'-4"	10'-8"
25	0.018	7'-7"	7'-5"	7'-2"	6'-10"	6'-7"	6'-2"	5'-9"
	0.024	10'-1"	9'-11"	9'-7"	9'-3"	8'-9"	8'-1"	7'-7"
	0.032	12'-9"	12'-6"	12'-1"	11'-8"	11'-0"	10'-4"	9'-9"
	0.036	13'-11"	13'-8"	13'-3"	12'-10"	12'-2"	11'-4"	10'-8"
30	0.018	7'-1"	7'-1"	6'-9"	6'-6"	6'-4"	6'-1"	5'-8"
	0.024	9'-7"	9'-5"	9'-1"	8'-10"	8'-5"	8'-1"	7'-7"
	0.032	12'-1"	11'-10"	11'-6"	11'-2"	10'-10"	10'-4"	9'-9"
	0.036	13'-3"	13'-0"	12'-7"	12'-3"	11'-11"	11'-4"	10'-8"
35.7	0.018	6'-9"	6'-8"	6'-5"	6'-3"	6'-0"	5'-8"	5'-6"
	0.024	8'-11"	8'-10"	8'-7"	8'-4"	8'-0"	7'-10"	7'-7"
	0.032	11'-4"	11'-2"	10'-10"	10'-7"	10'-4"	10'-1"	9'-9"
	0.036	12'-5"	12'-3"	11'-11"	11'-7"	11'-4"	11'-1"	10'-8"
42	0.018	6'-4"	6'-3"	6'-1"	5'-10"	5'-7"	5'-5"	5'-3"
	0.024	8'-5"	8'-4"	8'-1"	7'-11"	7'-8"	7'-6"	7'-2"
	0.032	10'-8"	10'-7"	10'-4"	10'-1"	9'-10"	9'-7"	9'-4"
	0.036	11'-9"	11'-7"	11'-4"	11'-1"	10'-10"	10'-7"	10'-3"
50	0.018	5'-10"	5'-9"	5'-7"	5'-6"	5'-4"	5'-2"	5'-0"
	0.024	7'-10"	7'-10"	7'-8"	7'-6"	7'-2"	7'-0"	6'-10"
	0.032	9'-11"	9'-11"	9'-9"	9'-6"	9'-4"	9'-2"	8'-11"
	0.036	10'-11"	10'-11"	10'-8"	10'-5"	10'-3"	10'-0"	9'-9"

TABLE 4.16

3.5" x12 Super 12 (Multi Span) Detail D

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	8'-8"	7'-10"	6'-5"	5'-4"	4'-6"	3'-10"	3'-3"
	0.024	12'-6"	11'-11"	11'-0"	10'-3"	9'-6"	8'-11"	8'-4"
	0.032	14'-9"	14'-1"	13'-0"	12'-1"	11'-3"	10'-6"	9'-11"
	0.036	15'-10"	15'-2"	13'-11"	12'-11"	12'-1"	11'-4"	10'-7"
15	0.018	7'-9"	7'-2"	6'-5"	5'-4"	4'-6"	3'-10"	3'-3"
	0.024	12'-2"	11'-10"	11'-0"	10'-3"	9'-6"	8'-11"	8'-4"
	0.032	14'-3"	13'-11"	13'-0"	12'-1"	11'-3"	10'-6"	9'-11"
	0.036	15'-3"	14'-11"	13'-11"	12'-11"	12'-1"	11'-4"	10'-7"
20	0.018	6'-5"	6'-3"	5'-8"	5'-3"	4'-6"	3'-10"	3'-3"
	0.024	11'-5"	11'-2"	10'-9"	10'-3"	9'-6"	8'-11"	8'-4"
	0.032	13'-5"	13'-2"	12'-8"	12'-1"	11'-3"	10'-6"	9'-11"
	0.036	14'-4"	14'-1"	13'-7"	12'-11"	12'-1"	11'-4"	10'-7"
25	0.018	6'-5"	6'-3"	5'-6"	5'-1"	4'-6"	3'-10"	3'-3"
	0.024	11'-2"	11'-0"	10'-7"	10'-3"	9'-6"	8'-11"	8'-4"
	0.032	13'-2"	12'-11"	12'-5"	12'-1"	11'-3"	10'-6"	9'-11"
	0.036	14'-1"	13'-10"	13'-4"	12'-11"	12'-1"	11'-4"	10'-7"
30	0.018	5'-6"	5'-4"	5'-1"	4'-8"	4'-4"	3'-10"	3'-3"
	0.024	10'-7"	10'-5"	10'-1"	9'-10"	9'-6"	8'-11"	8'-4"
	0.032	12'-5"	12'-3"	11'-10"	11'-6"	11'-2"	10'-6"	9'-11"
	0.036	13'-4"	13'-1"	12'-8"	12'-4"	12'-0"	11'-4"	10'-7"
35.7	0.018	5'-1"	4'-10"	4'-7"	4'-4"	4'-1"	3'-7"	3'-3"
	0.024	9'-11"	9'-10"	9'-6"	9'-2"	8'-10"	8'-5"	8'-0"
	0.032	11'-8"	11'-6"	11'-2"	10'-11"	10'-8"	10'-5"	9'-11"
	0.036	12'-6"	12'-4"	12'-0"	11'-8"	11'-5"	11'-1"	10'-7"
42	0.018	4'-7"	4'-4"	4'-2"	4'-0"	3'-7"	3'-5"	3'-2"
	0.024	9'-5"	9'-2"	8'-10"	8'-7"	8'-1"	7'-10"	7'-6"
	0.032	11'-1"	10'-11"	10'-8"	10'-5"	10'-2"	9'-11"	9'-7"
	0.036	11'-10"	11'-8"	11'-5"	11'-1"	10'-10"	10'-8"	10'-4"
50	0.018	4'-1"	3'-10"	3'-7"	3'-6"	3'-3"	3'-1"	2'-11"
	0.024	8'-5"	8'-5"	8'-1"	7'-10"	7'-6"	7'-0"	6'-10"
	0.032	10'-3"	10'-3"	10'-0"	9'-10"	9'-7"	9'-5"	9'-2"
	0.036	11'-0"	11'-0"	10'-9"	10'-6"	10'-4"	10'-1"	9'-10"

TABLE 4.17

2.5" x 12" Mark X (Multispan) Detail B

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	5'-7"	5'-4"	5'-0"	4'-8"	4'-4"	4'-0"	3'-9"
	0.024	8'-1"	7'-8"	7'-0"	6'-5"	6'-0"	5'-7"	5'-2"
	0.032	10'-10"	10'-5"	9'-7"	8'-10"	8'-3"	7'-8"	7'-2"
	0.036	11'-10"	11'-4"	10'-5"	9'-8"	9'-0"	8'-5"	7'-10"
15	0.018	5'-0"	4'-11"	4'-7"	4'-5"	4'-2"	3'-10"	3'-7"
	0.024	7'-2"	7'-0"	6'-8"	6'-5"	6'-0"	5'-7"	5'-2"
	0.032	10'-0"	9'-9"	9'-6"	8'-10"	8'-3"	7'-8"	7'-2"
	0.036	10'-11"	10'-8"	10'-5"	9'-8"	9'-0"	8'-5"	7'-10"
20	0.018	4'-7"	4'-6"	4'-4"	4'-1"	3'-9"	3'-7"	3'-5"
	0.024	6'-7"	6'-5"	6'-2"	5'-9"	5'-6"	5'-3"	5'-0"
	0.032	9'-4"	9'-2"	8'-9"	8'-4"	8'-1"	7'-8"	7'-2"
	0.036	10'-2"	10'-0"	9'-7"	9'-3"	9'-0"	8'-5"	7'-10"
25	0.018	4'-6"	4'-5"	4'-3"	4'-0"	3'-8"	3'-6"	3'-5"
	0.024	6'-7"	6'-5"	6'-2"	5'-8"	5'-6"	5'-3"	5'-0"
	0.032	9'-2"	9'-0"	8'-8"	8'-2"	7'-11"	7'-8"	7'-2"
	0.036	10'-0"	9'-10"	9'-5"	9'-1"	8'-10"	8'-5"	7'-10"
30	0.018	4'-3"	4'-2"	4'-0"	3'-8"	3'-6"	3'-5"	3'-3"
	0.024	6'-1"	6'-1"	5'-8"	5'-5"	5'-2"	4'-11"	4'-9"
	0.032	8'-8"	8'-4"	8'-1"	7'-10"	7'-7"	7'-2"	6'-10"
	0.036	9'-5"	9'-3"	9'-0"	8'-8"	8'-3"	8'-1"	7'-9"
35.7	0.018	4'-0"	3'-10"	3'-8"	3'-6"	3'-5"	3'-3"	3'-1"
	0.024	5'-8"	5'-6"	5'-4"	5'-2"	4'-11"	4'-9"	4'-7"
	0.032	8'-1"	7'-11"	7'-8"	7'-4"	7'-1"	6'-9"	6'-7"
	0.036	8'-10"	8'-8"	8'-5"	8'-2"	7'-10"	7'-8"	7'-3"
42	0.018	3'-8"	3'-7"	3'-6"	3'-4"	3'-3"	3'-1"	2'-11"
	0.024	5'-4"	5'-2"	5'-0"	4'-11"	4'-8"	4'-6"	4'-5"
	0.032	7'-7"	7'-4"	7'-2"	7'-0"	6'-8"	6'-7"	6'-4"
	0.036	8'-3"	8'-2"	7'-11"	7'-9"	7'-4"	7'-2"	6'-11"
50	0.018	3'-5"	3'-4"	3'-3"	3'-2"	3'-0"	2'-11"	2'-9"
	0.024	4'-11"	4'-10"	4'-8"	4'-7"	4'-5"	4'-3"	4'-2"
	0.032	7'-0"	6'-10"	6'-8"	6'-7"	6'-4"	6'-2"	6'-0"
	0.036	7'-8"	7'-8"	7'-4"	7'-2"	6'-11"	6'-9"	6'-7"

TABLE 4.18

2"x6" Flat Panel (Multispan) Detail N2, C

Ground Snow Load (psf)	Panel Gauge (in)	Wind Speed and Exposure						
		Exposure C			Exposure C			
		115	120	130	140	150	160	170
10	0.018	9'-0"	8'-8"	7'-11"	7'-3"	6'-8"	6'-3"	5'-10"
	0.024	12'-0"	11'-6"	10'-7"	9'-9"	9'-2"	8'-6"	8'-0"
	0.032	13'-8"	13'-5"	13'-0"	12'-2"	11'-4"	10'-8"	10'-0"
	0.040	14'-8"	14'-5"	13'-11"	13'-7"	12'-10"	12'-0"	11'-3"
15	0.018	8'-9"	8'-7"	7'-11"	7'-3"	6'-8"	6'-3"	5'-10"
	0.024	11'-7"	11'-4"	10'-7"	9'-9"	9'-2"	8'-6"	8'-0"
	0.032	12'-10"	12'-7"	12'-5"	12'-2"	11'-4"	10'-8"	10'-0"
	0.040	13'-9"	13'-7"	13'-4"	13'-0"	12'-7"	12'-0"	11'-3"
20	0.018	8'-1"	7'-11"	7'-8"	7'-3"	6'-8"	6'-3"	5'-10"
	0.024	10'-10"	10'-8"	10'-3"	9'-9"	9'-2"	8'-6"	8'-0"
	0.032	12'-3"	12'-2"	11'-10"	11'-7"	11'-4"	10'-8"	10'-0"
	0.040	13'-2"	13'-0"	12'-9"	12'-5"	12'-2"	11'-10"	11'-3"
25	0.018	7'-11"	7'-9"	7'-6"	7'-2"	6'-8"	6'-3"	5'-10"
	0.024	10'-8"	10'-6"	10'-1"	9'-9"	9'-2"	8'-6"	8'-0"
	0.032	12'-2"	12'-0"	11'-8"	11'-5"	11'-3"	10'-8"	10'-0"
	0.040	13'-0"	12'-10"	12'-7"	12'-4"	12'-1"	11'-10"	11'-3"
30	0.018	7'-6"	7'-5"	7'-1"	6'-10"	6'-8"	6'-3"	5'-10"
	0.024	10'-1"	9'-11"	9'-8"	9'-4"	9'-1"	8'-6"	8'-0"
	0.032	11'-8"	11'-7"	11'-4"	11'-1"	10'-11"	10'-8"	10'-0"
	0.040	12'-7"	12'-5"	12'-2"	11'-11"	11'-9"	11'-5"	11'-3"
35.7	0.018	7'-1"	7'-0"	6'-9"	6'-7"	6'-4"	6'-2"	5'-10"
	0.024	9'-6"	9'-4"	9'-1"	8'-10"	8'-8"	8'-4"	8'-0"
	0.032	11'-3"	11'-1"	10'-11"	10'-9"	10'-7"	10'-5"	10'-0"
	0.040	12'-1"	11'-11"	11'-9"	11'-6"	11'-4"	11'-2"	10'-11"
42	0.018	6'-8"	6'-7"	6'-5"	6'-4"	6'-1"	6'-0"	5'-7"
	0.024	9'-0"	8'-10"	8'-8"	8'-5"	8'-2"	8'-0"	7'-9"
	0.032	10'-10"	10'-9"	10'-7"	10'-5"	10'-2"	10'-0"	9'-8"
	0.040	11'-8"	11'-6"	11'-4"	11'-2"	11'-0"	10'-10"	10'-7"
50	0.018	6'-4"	6'-3"	6'-1"	6'-0"	5'-8"	5'-6"	5'-5"
	0.024	8'-4"	8'-4"	8'-2"	8'-0"	7'-9"	7'-7"	7'-4"
	0.032	10'-4"	10'-4"	10'-1"	9'-10"	9'-8"	9'-6"	9'-3"
	0.040	11'-1"	11'-1"	10'-11"	10'-9"	10'-7"	10'-6"	10'-3"

TABLE 4.19

MAY 09 2023

Headers	Panel Thickness (in)	115 MPH EXP C or 130 MPH EXP B				120 MPH EXP C or 140 MPH EXP B			130 MPH EXP C or 150 MPH EXP B			140 MPH EXP C or 160 MPH EXP B					150 MPH EXP C or 170 MPH EXP B						160 MPH EXP C or 170 MPH EXP B						
		1	2	3	4	1	2	3	1	2	3	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6	7
		Number of #10 Sheet Metal Screws Required per foot at Header/Panel Connection (Number of screws required per header for double headers)																											
Dble Headers	0.018	3'	6'	9'	MAX	3'	6'	9'	2'	5'	7'	2'	4'	6'	8'	10'	2'	4'	5'	7'	9'	11'	2'	3'	5'	6'	8'	10'	MAX
Single 3x8	0.018	2'	3'	5'	6'	1'	3'	4'	1'	2'	4'	1'	2'	3'	4'	5'	1'	2'	3'	4'	5'	5'	1'	2'	2'	3'	4'	5'	6'
5.5" Alum Fascia	0.018	2'	3'	5'	6'	1'	3'	4'	1'	2'	4'	1'	2'	3'	4'	5'	1'	2'	3'	4'	5'	5'	1'	2'	2'	3'	4'	5'	6'
All others	0.018	2'	3'	5'	6'	1'	3'	4'	1'	2'	4'	1'	2'	3'	4'	5'	1'	2'	3'	4'	5'	5'	1'	2'	2'	3'	4'	5'	6'
Dble Headers	0.024	4'	8'	12'	MAX	4'	8'	11'	3'	6'	10'	3'	6'	8'	11'	14'	2'	5'	7'	10'	12'	15'	2'	4'	6'	8'	11'	13'	15'
Single 3x8	0.024	2'	4'	6'	8'	2'	4'	6'	2'	3'	5'	1'	3'	4'	6'	7'	1'	2'	4'	5'	6'	7'	1'	2'	3'	4'	5'	6'	7'
5.5" Alum Fascia	0.024	2'	4'	6'	8'	2'	4'	6'	2'	3'	5'	1'	3'	4'	6'	7'	1'	2'	4'	5'	6'	7'	1'	2'	3'	4'	5'	6'	7'
All others	0.024	2'	4'	6'	8'	2'	4'	6'	2'	3'	5'	1'	3'	4'	6'	7'	1'	2'	4'	5'	6'	7'	1'	2'	3'	4'	5'	6'	7'
Dble Headers	0.032	6'	11'	17'	MAX	5'	10'	15'	4'	9'	13'	4'	7'	11'	15'	MAX	3'	6'	10'	13'	16'	MAX	3'	6'	8'	11'	14'	17'	MAX
Single 3x8	0.032	3'	6'	8'	11'	3'	5'	8'	2'	4'	6'	2'	4'	6'	7'	9'	2'	3'	5'	6'	8'	10'	1'	3'	4'	6'	7'	8'	10'
5.5" Alum Fascia	0.032	3'	6'	8'	11'	3'	5'	8'	2'	4'	6'	2'	4'	6'	7'	9'	2'	3'	5'	6'	8'	10'	1'	3'	4'	6'	7'	8'	10'
All others	0.032	3'	6'	8'	11'	3'	5'	8'	2'	4'	6'	2'	4'	6'	7'	9'	2'	3'	5'	6'	8'	10'	1'	3'	4'	6'	7'	8'	10'
Dble Headers	0.036	6'	11'	17'	MAX	5'	10'	15'	4'	9'	13'	4'	8'	11'	15'	19'	3'	7'	10'	13'	16'	MAX	3'	6'	9'	11'	14'	17'	MAX
Single 3x8	0.036	3'	6'	9'	12'	3'	5'	8'	2'	5'	7'	2'	4'	6'	8'	10'	2'	3'	5'	7'	9'	10'	2'	3'	5'	6'	8'	9'	11'
5.5" Alum Fascia	0.036	3'	6'	9'	12'	3'	6'	9'	2'	5'	7'	2'	4'	6'	8'	10'	2'	4'	5'	7'	9'	11'	2'	3'	5'	6'	8'	10'	11'
All others	0.036	3'	6'	9'	12'	3'	6'	9'	2'	5'	7'	2'	4'	6'	8'	10'	2'	4'	5'	7'	9'	11'	2'	3'	5'	6'	8'	10'	11'

Table 4.36b Maximum Tributary Width for Each Header/Panel and Number of #10 Screw Combination

Headers	Panel Thickness (in)	115 MPH EXP C or 130 MPH EXP B				120 MPH EXP C or 140 MPH EXP B			130 MPH EXP C or 150 MPH EXP B			140 MPH EXP C or 160 MPH EXP B					150 MPH EXP C or 170 MPH EXP B						160 MPH EXP C or 170 MPH EXP B					
		1	2	3	4	1	2	3	1	2	3	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6
		Number of #14 Sheet Metal Screws Required per foot at Header/Panel Connection (Number of screws required per header for double headers)																										
Dble Headers	0.018	6'	MAX	MAX	MAX	5'	11'	MAX	5'	9'	MAX	4'	8'	MAX	MAX	MAX	3'	7'	10'	MAX	MAX	MAX	3'	6'	9'	MAX	MAX	MAX
Single 3x8	0.018	3'	6'	9'	MAX	3'	5'	8'	2'	5'	7'	2'	4'	6'	8'	10'	2'	3'	5'	7'	9'	10'	2'	3'	5'	6'	8'	9'
5.5" Alum Fascia	0.018	3'	6'	9'	MAX	3'	5'	8'	2'	5'	7'	2'	4'	6'	8'	10'	2'	3'	5'	7'	9'	10'	2'	3'	5'	6'	8'	9'
All others	0.018	3'	6'	9'	MAX	3'	5'	8'	2'	5'	7'	2'	4'	6'	8'	10'	2'	3'	5'	7'	9'	10'	2'	3'	5'	6'	8'	9'
Dble Headers	0.024	7'	15'	MAX	MAX	7'	14'	MAX	6'	12'	MAX	5'	10'	15'	MAX	MAX	4'	9'	13'	MAX	MAX	MAX	4'	8'	11'	MAX	MAX	MAX
Single 3x8	0.024	4'	8'	12'	MAX	4'	7'	11'	3'	6'	9'	3'	5'	8'	10'	13'	2'	5'	7'	9'	11'	14'	2'	4'	6'	8'	10'	12'
5.5" Alum Fascia	0.024	4'	8'	12'	MAX	4'	7'	11'	3'	6'	9'	3'	5'	8'	10'	13'	2'	5'	7'	9'	11'	14'	2'	4'	6'	8'	10'	12'
All others	0.024	4'	8'	12'	MAX	4'	7'	11'	3'	6'	9'	3'	5'	8'	10'	13'	2'	5'	7'	9'	11'	14'	2'	4'	6'	8'	10'	12'
Dble Headers	0.032	7'	15'	MAX	MAX	7'	14'	MAX	6'	12'	17'	5'	10'	15'	MAX	MAX	4'	9'	13'	17'	MAX	MAX	4'	8'	11'	15'	MAX	MAX
Single 3x8	0.032	4'	8'	12'	16'	4'	7'	11'	3'	6'	9'	3'	5'	8'	10'	13'	2'	5'	7'	9'	11'	14'	2'	4'	6'	8'	10'	12'
5.5" Alum Fascia	0.032	5'	10'	16'	MAX	5'	10'	14'	4'	8'	12'	3'	7'	10'	14'	17'	3'	6'	9'	12'	15'	MAX	3'	5'	8'	11'	13'	16'
All others	0.032	5'	10'	16'	MAX	5'	10'	14'	4'	8'	12'	3'	7'	10'	14'	17'	3'	6'	9'	12'	15'	MAX	3'	5'	8'	11'	13'	16'
Dble Headers	0.036	7'	15'	MAX	MAX	7'	14'	MAX	6'	12'	17'	5'	10'	15'	MAX	MAX	4'	9'	13'	17'	MAX	MAX	4'	8'	11'	15'	19'	MAX
Single 3x8	0.036	4'	8'	12'	16'	4'	7'	11'	3'	6'	9'	3'	5'	8'	10'	13'	2'	5'	7'	9'	11'	14'	2'	4'	6'	8'	10'	12'
5.5" Alum Fascia	0.036	5'	11'	16'	MAX	5'	10'	15'	4'	8'	13'	4'	7'	11'	14'	18'	3'	6'	9'	13'	16'	19'	3'	5'	8'	11'	14'	16'
All others	0.036	6'	12'	18'	MAX	5'	11'	16'	5'	9'	14'	4'	8'	12'	16'	MAX	3'	7'	10'	14'	17'	MAX	3'	6'	9'	12'	15'	18'

Table 4.37b Maximum Tributary Width for Each Header/Panel and Number of #14 Screw Combination

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EXP 6/30/2025
CIVIL
STATE OF CALIFORNIA

MAY 09 2023

PS = (W - 2OH)/(Q - 1) = (34' - (2 x 2'))/(4 - 1)
PS = (34' - 4')/3 = 30'/3 = 10'

SECTION 5.0 POST SPACING, POST TYPE AND FOOTING SIZE FOR SOLID COVERS

Roof Solidity: 100%

Ground Snow Load: 10 psf Live Load: 10 psf Wind Speed: 130 MPH EXPOSURE C or 150 MPH EXPOSURE B Seismic Ss= 150% Seismic Design Category D Structures are Attached to Existing Building

Table 5.8a

Header	Detail	trib 3'	Min Post Type	Uplift Footing (in)	Constrained Footing (in) Max Post Length 8'	10'	12'	trib 3.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 4'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	22'-8"	D					19'-5"	D					17'-0"	D				
0.042"x3"x8"	N30	8'-11"	A1	24	20	21	22	8'-1"	A1	25	21	22	23	7'-5"	A1	25	22	23	24
Double 3"x8"	N25	13'-5"	A1	28	20	21	22	12'-4"	A2	28	21	22	23	11'-4"	A2	29	22	23	24
Double 2"x6.625"	N25	12'-0"	A1	27	20	21	22	11'-0"	A1	27	21	22	23	10'-3"	A1	28	22	23	24
5.5" Extruded Fascia	L	11'-6"	A1	26	20	21	22	10'-6"	A1	27	21	22	23	9'-8"	A1	27	22	23	24
California Fascia	N10, G	10'-0"	A1	25	20	21	22	9'-1"	A1	25	21	22	23	8'-4"	A1	26	22	23	24
Classic Fascia	H	17'-4"	A3	30	20	21	22	16'-0"	A3	31	21	22	23	14'-11"	B	31	22	23	24
16 G Steel C	N9, T	14'-9"	A2	28	20	21	22	13'-2"	A2	29	21	22	23	12'-0"	A2	29	22	23	24
14 G Steel C	N9, T	17'-10"	A3	30	20	21	22	16'-1"	A3	31	21	22	23	14'-8"	B	31	22	23	24
12 G Steel C	N9, T	26'-6"	E	35	20	22	23	24'-0"	E	35	21	22	23	22'-1"	E	36	22	23	24
Double 16 G Steel C	N9, N25, T	26'-9"	E	35	20	22	23	24'-8"	E	36	21	22	23	22'-11"	E	36	22	23	24
Double 14 G Steel C	N9, N25, T	30'-10"	E	36	21	22	24	28'-6"	E	37	22	23	24	26'-7"	F	38	22	23	24
Double 12 G Steel C	N9, N25, T	40'-0"	G	40	23	24	25	37'-8"	G	41	23	25	26	35'-2"	G	42	24	25	26
Steel Cloverleaf	W	8'-8"	A1	24	20	21	22	7'-10"	A1	24	21	22	23	7'-2"	A1	25	22	23	24
DBL Steel Cloverleaf	AA	14'-1"	A2	28	20	21	22	13'-0"	A2	29	21	22	23	12'-2"	A2	29	22	23	24
4x3 I Beam	Y	9'-6"	A1	25	20	21	22	9'-2"	A1	26	21	22	23	8'-10"	A1	26	22	23	24
7x4 I Beam	Q	13'-5"	A1	28	20	21	22	12'-11"	A2	29	21	22	23	12'-6"	A3	30	22	23	24

Header	Detail	trib 4.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 5.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 6'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	15'-1"	D					13'-7"	D					12'-4"	D					11'-4"	D				
0.042"x3"x8"	N30	6'-11"	A1	25	22	24	25	6'-5"	A1	26	23	24	26	6'-0"	A1	26	24	25	26	5'-8"	A1	26	24	26	27
Double 3"x8"	N25	10'-8"	A2	29	22	24	25	10'-0"	A3	30	23	24	26	9'-5"	A3	30	24	25	26	8'-11"	A3	30	24	26	27
Double 2"x6.625"	N25	9'-8"	A2	28	22	24	25	9'-1"	A2	29	23	24	26	8'-7"	A2	29	24	25	26	8'-2"	A2	29	24	26	27
5.5" Extruded Fascia	L	9'-1"	A1	28	22	24	25	8'-6"	A2	28	23	24	26	8'-0"	A2	28	24	25	26	7'-7"	A2	29	24	26	27
California Fascia	N10, G	7'-9"	A1	26	22	24	25	7'-3"	A1	27	23	24	26	6'-10"	A1	27	24	25	26	6'-5"	A1	27	24	26	27
Classic Fascia	H	14'-2"	C	32	22	24	25	13'-5"	C	33	23	24	26	12'-10"	D	33	24	25	26	12'-3"	D	34	24	26	27
16 G Steel C	N9, T	11'-1"	A3	30	22	24	25	10'-3"	A3	30	23	24	26	9'-7"	A3	30	24	25	26	8'-9"	A3	30	24	26	27
14 G Steel C	N9, T	13'-8"	C	32	22	24	25	12'-8"	C	32	23	24	26	11'-9"	C	32	24	25	26	11'-1"	C	33	24	26	27
12 G Steel C	N9, T	20'-8"	E	36	22	24	25	19'-4"	E	37	23	24	26	18'-2"	E	37	24	25	26	17'-1"	E	38	24	26	27
Double 16 G Steel C	N9, N25, T	21'-9"	E	37	22	24	25	20'-6"	E	38	23	24	26	19'-5"	F	38	24	25	26	18'-6"	F	39	24	26	27
Double 14 G Steel C	N9, N25, T	25'-2"	F	39	22	24	25	23'-10"	G	40	23	24	26	22'-7"	G	40	24	25	26	21'-7"	G	41	24	26	27
Double 12 G Steel C	N9, N25, T	33'-4"	H1	43	24	25	27	31'-7"	H1	43	24	26	27	30'-1"	H1	44	25	26	27	28'-9"	H1	45	25	26	28
Steel Cloverleaf	W	6'-9"	A1	25	22	24	25	6'-3"	A1	25	23	24	26	5'-10"	A1	26	24	25	26	5'-6"	A1	26	24	26	27
DBL Steel Cloverleaf	AA	11'-6"	A3	30	22	24	25	10'-11"	A3	31	23	24	26	10'-4"	A3	31	24	25	26	9'-11"	B	31	24	26	27
4x3 I Beam	Y	8'-7"	A1	27	22	24	25	8'-4"	A2	28	23	24	26	8'-2"	A2	29	24	25	26	7'-9"	A2	29	24	26	27
7x4 I Beam	Q	12'-2"	A3	31	22	24	25	11'-10"	B	31	23	24	26	11'-7"	C	32	24	25	26	11'-3"	D	33	24	26	27

Header	Detail	trib 6.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 7'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 7.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 8'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	10'-5"	A1					9'-8"	D					9'-1"	D					8'-6"	D				
0.042"x3"x8"	N30	5'-4"	A1	26	25	26	27	5'-1"	A1	26	25	27	28	4'-9"	A1	27	26	27	28	4'-7"	A1	27	26	28	29
Double 3"x8"	N25	8'-6"	A3	31	25	26	27	8'-2"	A3	31	25	27	28	7'-9"	B	31	26	27	28	7'-6"	C	31	26	28	29
Double 2"x6.625"	N25	7'-9"	A3	30	25	26	27	7'-5"	A3	30	25	27	28	7'-2"	A3	30	26	27	28	6'-10"	A3	31	26	28	29
5.5" Extruded Fascia	L	7'-3"	A2	29	25	26	27	6'-11"	A2	29	25	27	28	6'-7"	A3	30	26	27	28	6'-4"	A3	30	26	28	29
California Fascia	N10, G	6'-1"	A1	27	25	26	27	5'-10"	A1	28	25	27	28	5'-6"	A2	28	26	27	28	5'-3"	A2	28	26	28	29
Classic Fascia	H	11'-9"	D	34	25	26	27	11'-4"	E	35	25	27	28	11'-0"	E	35	26	27	28	10'-7"	E	35	26	28	29
16 G Steel C	N9, T	8'-0"	A3	30	25	26	27	7'-6"	A3	30	25	27	28	7'-0"	A3	30	26	27	28	6'-7"	A3	30	26	28	29
14 G Steel C	N9, T	10'-5"	D	33	25	26	27	9'-11"	D	33	25	27	28	9'-5"	D	33	26	27	28	8'-10"	D	33	26	28	29
12 G Steel C	N9, T	16'-3"	F	38	25	26	27	15'-7"	F	38	25	27	28	14'-10"	F	39	26	27	28	14'-2"	F	39	26	28	29
Double 16 G Steel C	N9, N25, T	17'-9"	F	39	25	26	27	17'-1"	G	40	25	27	28	16'-5"	G	40	26	27	28	15'-10"	G	40	26	28	29
Double 14 G Steel C	N9, N25, T	20'-8"	G	41	25	26	27	20'-0"	G	42	25	27	28	19'-3"	G	42	26	27	28	18'-7"	H1	43	26	28	29
Double 12 G Steel C	N9, N25, T	27'-7"	H1	45	25	27	28	26'-8"	H1	46	25	27	28	25'-9"	H1	47	26	27	28	24'-11"	H1	47	26	28	29
Steel Cloverleaf	W	5'-3"	A1	26	25	26	27	5'-0"	A1	26	25	27	28	4'-9"	A1	27	26	27	28	4'-6"	A1	27	26	28	29
DBL Steel Cloverleaf	AA	9'-6"	C	32	25	26	27	9'-2"	C	32	25	27	28	8'-10"	C	33	26	27	28	8'-7"	D	33	26	28	29
4x3 I Beam	Y	7'-3"	A2	29	25	26	27	6'-11"	A2	29	25	27	28	6'-6"	A2	29	26	27	28	6'-2"	A3	30	26	28	29
7x4 I Beam	Q	11'-1"	D	33	25	26	27	10'-11"	D	34	25	27	28	10'-5"	D	34	26	27	28	9'-10"	E	35	26	28	29

Header	Detail	trib 8.5'	Min Post Type	Uplift Footing (in)	Footing (in) Max Post Length 8'	10'	12'	trib 9'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 10'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	8'-0"	D					7'-6"	D					6'-9"	D				
0.042"x3"x8"	N30	4'-4"	A1	27	26	28	29	4'-2"	A1	27	27	28	30	3'-10"	A1	27	28	29	31
Double 3"x8"	N25	7'-2"	C	32	26	28	29	6'-11"	C	32	27	28	30	6'-5"	C	32	28	29	31
Double 2"x6.625"	N25	6'-7"	A3	31	26	28	29	6'-5"	A3	31	27	28	30	6'-0"	C	32	28	29	31
5.5" Extruded Fascia	L	6'-1"	A3	30	26	28	29	5'-11"	A3	30	27	28	30	5'-6"	A3	31	28	29	31
California Fascia	N10, G	5'-0"	A2	28	26	28	29	4'-10"	A2	28	27	28	30	4'-6"	A2	29	28	29	31
Classic Fascia	H	10'-3"	E	36	26	28	29	10'-0"	E	36	27	28	30	9'-6"	E	37	28	29	31
16 G Steel C	N9, T	6'-2"	A3	30	26	28	29	5'-10"	A3	30	27	28	30	5'-3"	A3	30	28	29	31
14 G Steel C	N9, T	8'-4"	D	33	26	28	29	7'-11"	D	33	27	28	30	7'-1"	D	33	28	29	31
12 G Steel C	N9, T	13'-7"	G	39	26	28	29	13'-2"	G	40	27	28	30	12'-2"	G	40	28	29	31
Double 16 G Steel C	N9, N25, T	15'-4"	G	41	26	28	29	14'-10"	G	41	27	28	30	14'-0"	G	42	28	29	31
Double 14 G Steel C	N9, N25, T	18'-0"	H1	43	26	28	29	17'-6"	H1	43	27	28	30	16'-7"	H1	44	28	29	31
Double 12 G Steel C	N9, N25, T	24'-2"	H2	47	26	28	29	23'-6"	H2	48	27	28	30	22'-3"	H2	49	28	29	31
Steel Cloverleaf	W	4'-4"	A1	27	26	28	29	4'-2"	A1	27	27	28	30	3'-10"	A1	27	28	29	31
DBL Steel Cloverleaf	AA	8'-4"	D	33	26	28	29	8'-1"	D	34	27	28	30	7'-8"	D	34	28	29	31
4x3 I Beam	Y	5'-11"	A3	30	26	28	29	5'-8"	A3	30	27	28	30	5'-2"	A3	30	28	29	31
7x4 I Beam	Q	9'-5"	E	35	26	28	29	9'-0"	E	35	27	28	30	8'-3"	E	35	28	29	31

Header	Detail	trib 10.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 11'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 11.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 12'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	6'-5"	D					6'-2"	D					5'-11"	D					5'-8"	D				
0.042"x3"x8"	N30	3'-8"	A1	27	28	30	31	3'-6"	A1	27	28	30	31	3'-5"	A1	27	29	30	32	3'-3"	A1	27	29	31	32
Double 3"x8"	N25	6'-2"	C	32	28	30	31	6'-0"	C	33	28	30	31	5'-10"	C	33	29	30	32	5'-8"	D	33	29	31	32
Double 2"x6.625"	N25	5'-9"	C	32	28	30	31	5'-8"	C	32	28	30	31	5'-6"	C	32	29	30	32	5'-4"	C	32	29	31	32
5.5" Extruded Fascia	L	5'-4"	A3	31	28	30	31	5'-2"	A3	31	28	30	31	5'-0"	A3	31	29	30	32	4'-10"	B	31	29	31	32
California Fascia	N10, G	4'-4"	A2	29	28	30	31	4'-2"	A2	29	28	30	31	4'-1"	A2	29	29	30	32	3'-11"	A2	29	29	31	32
Classic Fascia	H	9'-3"	E	37	28	30	31	9'-0"	E	37	28	30	31	8'-9"	E	37	29	30	32	8'-7"	E	38	29	31	32
16 G Steel C	N9, T	5'-0"	A3	30	28	30	31	4'-9"	A3	30	28	30	31	4'-7"	A3	30	29	30	32	4'-4"	A3	30	29	31	32
14 G Steel C	N9, T	6'-9"	D	33	28	30	31	6'-6"	D	33	28	30	31	6'-2"	D	33	29	30	32	5'-11"	D	33	29	31	32
12 G Steel C	N9, T	11'-9"	G	40	28	30	31	11'-5"	G	40	28	30	31	11'-1"	G	41	29	30	32	10'-9"	G	41	29	31	32
Double 16 G Steel C	N9, N25, T	13'-7"	G	42	28	30	31	13'-3"	H1	42	28	30	31	12'-11"	H1	43	29	30	32	12'-7"	H1	43	29	31	32
Double 14 G Steel C	N9, N25, T	16'-1"	H1	45	28	30	31	15'-9"	H1	45	28	30	31	15'-5"	H1	45	29	30	32	15'-0"	H1	45	29	31	32
Double 12 G Steel C	N9, N25, T	21'-9"	H2	49	28	30	31	21'-3"	H2	50	28	30	31	20'-9"	H2	50	29	30	32	20'-4"	H2	50	29	31	32
Steel Cloverleaf	W	3'-9"	A1	27	28	30	31	3'-7"	A1	28	28	30	31	3'-6"	A1	28	29	30	32	3'-4"	A1	28	29	31	32
DBL Steel Cloverleaf	AA	7'-5"	D	34	28	30	31	7'-4"	E	35	28	30	31	7'-2"	E	35	29	30	32	7'-0"	E	35	29	31	32
4x3 I Beam	Y	5'-0"	A3	30	28	30	31	4'-10"	A3	30	28	30	31	4'-8"	A3	30	29	30	32	4'-5"	A3	30	29	31	32
7x4 I Beam	Q	7'-11"	E	35	28	30	31	7'-8"	E	35	28	30	31	7'-4"	E	35	29	30	32	7'-1"	E	35	29	31	32

Header	Detail	trib 13'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 14'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 15'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	5'-2"	D					4'-10"	D					4'-6"	D				
0.042"x3"x8"	N30	3'-1"	A1	28	29	31	33	2'-10"	A1	28	30	32	33	2'-8"	A1	28	31	32	34
Double 3"x8"	N25	5'-4"	D	33	29	31	33	5'-1"	D	33	30	32	33	4'-9"	D	34	31	32	34
Double 2"x6.625"	N25	5'-0"	C	32	29	31	33	4'-9"	C	33	30	32	33	4'-7"	D	33	31	32	34
5.5" Extruded Fascia	L	4'-7"	C	31	29	31	33	4'-4"	C	32	30	32	33	4'-2"	C	32	31	32	34
California Fascia	N10, G	3'-8"	A2	29	29	31	33	3'-6"	A2	29	30	32	33	3'-3"	A3	30	31	32	34
Classic Fascia	H	8'-2"	F	38	29	31	33	7'-10"	F	39	30	32	33	7'-7"	F	39	31	32	34
16 G Steel C	N9, T	4'-0"	A3	30	29	31	33	3'-9"	A3	30	30	32	33	3'-6"	A3	30	31	32	34
14 G Steel C	N9, T	5'-5"	D	33	29	31	33	5'-1"	D	33	30	32	33	4'-9"	D	33	31	32	34
12 G Steel C	N9, T	10'-2"	G	41	29	31	33	9'-8"	G	41	30	32	33	9'-2"	G	42	31	32	34
Double 16 G Steel C	N9, N25, T	12'-0"	H1	43	29	31	33	11'-6"	H1	44	30	32	33	11'-0"	H1	44	31	32	34
Double 14 G Steel C	N9, N25, T	14'-3"	H1	46	29	31	33	13'-8"	H1	46	30	32	33	13'-1"	H1	47	31	32	34
Double 12 G Steel C	N9, N25, T	19'-6"	H3	51	29	31	33	18'-10"	H3	52	30	32	33	18'-2"	H3	52	31	32	34
Steel Cloverleaf	W	3'-2"	A2	28	29	31	33	3'-0"	A2	28	30	32	33	2'-10"	A2	28	31	32	34
DBL Steel Cloverleaf	AA	6'-8"	E	36	29	31	33	6'-5"	E	36	30	32	33	6'-2"	E	37	31	32	34
4x3 I Beam	Y	4'-2"	A3	30	29	31	33	3'-11"	A3	31	30	32	33	3'-8"	A3	31	31	32	34
7x4 I Beam	Q	6'-7"	E	36	29	31	33	6'-2"	E	36	30	32	33	5'-10"	E	36	31	32	34

Ground Snow Load: 10 psf Live Load: 10 psf Wind Speed: 130 MPH EXPOSURE C or 150 MPH EXPOSURE B Seismic Ss= 150% Seismic Design Category D Freestanding Structures

Table 5.8b

Header	Detail	trib 3'	Min Post Type	Uplift Footing (in)	Constrained Footing (in) Max Post Length 8'	10'	12'	trib 3.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 4'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	n/a	D					n/a	D					n/a	D				
0.042"x3"x8"	N30	9'-10"	A1	22	28	30	31	9'-1"	A1	22	27	29	30	8'-4"	A1	23	27	28	30
Double 3"x8"	N25	14'-8"	A2	25	31	33	34	13'-8"	A3	26	30	32	34	12'-7"	A3	26	30	31	33
Double 2"x6.625"	N25	13'-1"	A2	24	29	30	32	12'-2"	A2	25	28	30	31	11'-3"	A2	25	28	29	31
5.5" Extruded Fascia	L	12'-7"	A1	24	27	29	30	11'-8"	A2	24	26	28	29	10'-9"	A2	25	26	27	29
California Fascia	N10, G	11'-0"	A1	23	25	26	28	10'-2"	A1	23	25	26	27	9'-4"	A1	24	24	25	27
Classic Fascia	H	18'-9"	C	27	30	32	34	17'-6"	C	28	30	31	33	16'-4"	D	29	29	31	32
16 G Steel C	N9, T	16'-5"	A3	26	32	34	35	15'-0"	A3	27	31	33	34	13'-7"	B	27	30	32	34
14 G Steel C	N9, T	19'-10"	C	28	33	35	37	18'-2"	D	28	33	35	36	16'-7"	D	29	32	34	35
12 G Steel C	N9, T	29'-2"	E	31	37	39	41	26'-10"	E	32	36	38	40	24'-8"	F	33	35	37	39
Double 16 G Steel C	N9, N25, T	29'-1"	E	31	37	39	41	27'-1"	E	32	36	38	40	25'-3"	F	33	35	38	39
Double 14 G Steel C	N9, N25, T	33'-5"	F	33	38	40	42	31'-3"	G	34	37	40	41	29'-1"	G	35	37	39	41
Double 12 G Steel C	N9, N25, T	40'-0"	G	35	40	42	44	40'-0"	H1	37	40	42	44	38'-5"	H1	38	39	42	44
Steel Cloverleaf	W	9'-7"	A1	22	22	23	24	8'-10"	A1	22	21	22	23	8'-1"	A1	23	21	22	23
DBL Steel Cloverleaf	AA	15'-3"	A3	25	24	26	27	14'-3"	A3	26	24	25	27	13'-3"	A3	27	23	25	26
4x3 I Beam	Y	10'-5"	A1	22	24	25	26	10'-0"	A1	23	24	25	26	9'-8"	A2	24	23	25	26
7x4 I Beam	Q	14'-9"	A2	25	30	32	33	14'-2"	A3	26	30	31	33	13'-8"	B	27	29	31	33

Header	Detail	trib 4.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 5.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 6'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	n/a	D					n/a	D					n/a	D					n/a	D				
0.042"x3"x8"	N30	7'-8"	A1	23	26	28	29	7'-2"	A1	23	26	27	29	6'-9"	A1	24	25	27	28	6'-4"	A2	24	25	26	28
Double 3"x8"	N25	11'-9"	A3	27	29	31	32	11'-0"	B	27	29	30	32	10'-6"	C	27	28	30	31	9'-11"	C	28	28	30	31
Double 2"x6.625"	N25	10'-7"	A3	26	27	29	30	9'-11"	A3	26	27	28	30	9'-6"	A3	27	26	28	29	9'-0"	A3	27	26	28	29
5.5" Extruded Fascia	L	10'-0"	A2	25	25	27	28	9'-4"	A3	26	25	27	28	8'-11"	A3	26	25	26	27	8'-5"	A3	26	24	26	27
California Fascia	N10, G	8'-7"	A2	24	24	25	26	8'-0"	A2	24	23	24	26	7'-8"	A2	25	23	24	25	7'-2"	A2	25	23	25	26
Classic Fascia	H	15'-4"	D	29	29	30	32	14'-7"	E	30	28	30	31	14'-0"	E	30	28	30	31	13'-4"	E	31	28	29	31
16 G Steel C	N9, T	12'-6"	C	27	30	31	33	11'-6"	C	27	29	31	32	10'-10"	C	28	29	30	32	10'-2"	C	28	28	30	31
14 G Steel C	N9, T	15'-3"	D	29	31	33	35	14'-1"	D	29	31	32	34	13'-4"	E	30	30	32	33	12'-6"	E	30	30	31	33
12 G Steel C	N9, T	22'-10"	F	33	35	37	38	21'-4"	G	34	34	36	38	20'-3"	G	34	34	36	37	19'-2"	G	34	33	35	37
Double 16 G Steel C	N9, N25, T	23'-8"	F	34	35	37	39	22'-4"	G	34	34	36	38	21'-4"	G	35	34	36	38	20'-4"	G	35	34	36	37
Double 14 G Steel C	N9, N25, T	27'-4"	G	35	36	38	40	25'-10"	G	36	36	38	40	24'-9"	H1	36	35	37	39	23'-7"	H1	37	35	37	39
Double 12 G Steel C	N9, N25, T	36'-2"	H1	39	39	41	43	34'-3"	H1	39	38	41	42	32'-10"	H1	40	38	40	42	31'-4"	H2	41	37	40	42
Steel Cloverleaf	W	7'-6"	A1	23	22	23	24	6'-11"	A1	23	22	24	25	6'-7"	A1	23	23	24	25	6'-2"	A1	24	23	25	26
DBL Steel Cloverleaf	AA	12'-6"	C	27	23	24	26	11'-10"	C	28	23	24	25	11'-4"	C	28	23	24	25	10'-10"	D	29	23	25	26
4x3 I Beam	Y	9'-5"	A2	25	23	25	26	9'-2"	A3	25	23	24	25	8'-9"	A3	26	23	24	25	8'-5"	A3	26	23	25	26
7x4 I Beam	Q	13'-4"	C	28	29	31	32	13'-0"	D	29	29	31	32	12'-9"	D	29	29	31	32	12'-5"	E	30	29	30	32

Header	Detail	trib 6.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 7'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 7.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 8'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	n/a	D					n/a	D					n/a	D					n/a	D				
0.042"x3"x8"	N30	6'-0"	A2	24	25	26	27	5'-9"	A2	24	24	26	27	5'-5"	A2	24	25	26	27	5'-2"	A2	25	25	27	28
Double 3"x8"	N25	9'-5"	C	28	28	29	31	9'-1"	D	28	27	29	30	8'-8"	D	29	27	29	30	8'-4"	D	29	27	28	30
Double 2"x6.625"	N25	8'-7"	C	27	26	27	29	8'-3"	C	27	25	27	28	7'-11"	C	28	25	27	28	7'-7"	C	28	25	27	28
5.5" Extruded Fascia	L	8'-0"	A3	27	24	26	27	7'-9"	A3	27	24	26	27	7'-5"	C	27	25	26	27	7'-1"	C	27	25	27	28
California Fascia	N10, G	6'-10"	A2	25	24	25	26	6'-6"	A3	25	24	26	27	6'-2"	A3	26	25	26	27	5'-11"	A3	26	25	27	28
Classic Fascia	H	12'-10"	E	31	27	29	30	12'-5"	E	31	27	29	30	11'-11"	E	32	27	29	30	11'-7"	E	32	27	28	30
16 G Steel C	N9, T	9'-7"	C	28	28	29	31	8'-11"	D	28	27	29	30	8'-4"	C	28	27	28	30	7'-9"	C	28	26	28	29
14 G Steel C	N9, T	11'-9"	E	30	29	31	32	11'-3"	E	30	29	31	32	10'-8"	E	31	29	30	32	10'-2"	E	31	28	30	31
12 G Steel C	N9, T	18'-2"	G	35	33	35	36	17'-5"	G	35	32	34	36	16'-7"	G	35	32	34	35	15'-11"	G	36	32	33	35
Double 16 G Steel C	N9, N25, T	19'-5"	G	36	33	35	37	18'-9"	G	36	33	35	36	18'-1"	H1	36	33	34	36	17'-5"	H1	37	32	34	36
Double 14 G Steel C	N9, N25, T	22'-7"	H1	37	35	37	38	21'-11"	H1	38	34	36	38	21'-1"	H1	38	34	36	38	20'-4"	H1	39	34	36	37
Double 12 G Steel C	N9, N25, T	30'-1"	H2	41	37	39	41	29'-1"	H2	42	37	39	41	28'-1"	H2	42	36	39	40	27'-2"	H2	43	36	38	40
Steel Cloverleaf	W	5'-10"	A1	24	24	25	26	5'-7"	A2	24	24	26	27	5'-4"	A2	24	25	26	27	5'-1"	A2	24	25	27	28
DBL Steel Cloverleaf	AA	10'-4"	D	29	24	25	26	10'-0"	D	29	24	26	27	9'-8"	D	30	25	26	27	9'-4"	E	30	25	27	28
4x3 I Beam	Y	8'-0"	A3	27	24	25	26	7'-9"	B	27	24	26	27	7'-5"	C	27	25	26	27	7'-1"	C	27	25	27	28
7x4 I Beam	Q	12'-2"	E	30	28	30	32	12'-0"	E	31	28	30	31	11'-9"	E	32	28	30	31	11'-3"	E	32	28	30	31

Header	Detail	trib 8.5'	Min Post Type	Uplift Footing (in)	Footing (in) Max Post Length 8'	10'	12'	trib 9'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 10'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	n/a	D					n/a	D					n/a	D				
0.042"x3"x8"	N30	4'-11"	A2	25	26	27	28	4'-9"	A2	25	26	27	29	4'-4"	A2	25	27	28	29
Double 3"x8"	N25	8'-0"	D	29	27	28	29	7'-9"	D	29	26	28	29	7'-2"	D	30	27	28	29
Double 2"x6.625"	N25	7'-4"	C	28	26	27	28	7'-1"	D	28	26	27	29	6'-8"	D	29	27	28	29
5.5" Extruded Fascia	L	6'-10"	C	27	26	27	28	6'-7"	C	28	26	27	29	6'-2"	C	28	27	28	29
California Fascia	N10, G	5'-8"	A3	26	26	27	28	5'-6"	A3	26	26	27	29	5'-1"	A3	26	27	28	29
Classic Fascia	H	11'-2"	E	32	27	28	29	10'-11"	F	33	26	28	29	10'-4"	F	33	27	28	29
16 G Steel C	N9, T	7'-4"	C	28	26	27	29	6'-11"	D	28	26	27	29	6'-3"	C	28	27	28	29
14 G Steel C	N9, T	9'-8"	E	31	28	29	31	9'-4"	E	31	28	29	31	8'-5"	E	31	27	28	30
12 G Steel C	N9, T	15'-3"	G	36	31	33	35	14'-9"	G	36	31	33	34	13'-8"	H1	37	30	32	34
Double 16 G Steel C	N9, N25, T	16'-10"	H1	37	32	34	35	16'-4"	H1	37	32	34	35	15'-4"	H1	38	31	33	35
Double 14 G Steel C	N9, N25, T	19'-8"	H1	39	33	35	37	19'-2"	H1	39	33	35	37	18'-1"	H1	40	33	35	36
Double 12 G Steel C	N9, N25, T	26'-3"	H2	43	36	38	40	25'-8"	H3	43	36	38	39	24'-3"	H3	44	35	37	39
Steel Cloverleaf	W	4'-10"	A2	25	26	27	28	4'-8"	A2	25	26	27	29	4'-4"	A2	25	27	28	29
DBL Steel Cloverleaf	AA	9'-1"	E	30	26	27	28	8'-10"	E	30	26	27	29	8'-4"	E	31	27	28	29
4x3 I Beam	Y	6'-9"	C	27	26	27	28	6'-6"	C	28	26	27	29	5'-11"	C	28	27	28	29
7x4 I Beam	Q	10'-9"	E	32	28	29	31	10'-4"	E	32	27	29	30	9'-5"	E	32	27	28	30

Header	Detail	trib 10.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 11'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 11.5'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 12'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	n/a	D					n/a	D					n/a	D					n/a	D				
0.042"x3"x8"	N30	4'-3"	A2	25	27	28	30	4'-1"	A2	25	27	29	30	3'-11"	A2	25	28	29	31	3'-9"	A2	25	28	29	31
Double 3"x8"	N25	7'-0"	E	30	27	28	30	6'-9"	E	30	27	29	30	6'-7"	E	30	28	29	31	6'-4"	E	30	28	29	31
Double 2"x6.625"	N25	6'-6"	D	29	27	28	30	6'-3"	D	29	27	29	30	6'-1"	D	29	28	29	31	5'-11"	D	29	28	29	31
5.5" Extruded Fascia	L	6'-0"	D	28	27	28	30	5'-9"	D	28	27	29	30	5'-7"	D	28	28	29	31	5'-5"	D	29	28	29	31
California Fascia	N10, G	4'-11"	A3	26	27	28	30	4'-9"	A3	27	27	29	30	4'-7"	A3	27	28	29	31	4'-5"	A3	27	28	29	31
Classic Fascia	H	10'-1"	F	34	27	28	30	9'-10"	G	34	27	29	30	9'-7"	G	34	28	29	31	9'-5"	G	34	28	29	31
16 G Steel C	N9, T	5'-11"	D	28	27	28	30	5'-8"	C	28	27	29	30	5'-5"	C	28	28	29	31	5'-2"	C	28	28	29	31
14 G Steel C	N9, T	8'-1"	E	31	27	28	30	7'-8"	E	31	27	29	30	7'-4"	E	31	28	29	31	7'-0"	E	31	28	29	31
12 G Steel C	N9, T	13'-4"	H1	37	30	32	33	12'-10"	H1	37	30	32	33	12'-5"	H1	37	30	31	33	12'-1"	H1	37	29	31	33
Double 16 G Steel C	N9, N25, T	15'-0"	H1	38	31	33	34	14'-7"	H1	39	31	33	34	14'-3"	H1	39	31	32	34	13'-10"	H1	39	30	32	34
Double 14 G Steel C	N9, N25, T	17'-8"	H1	40	32	34	36	17'-3"	H2	41	32	34	36	16'-10"	H2	41	32	34	35	16'-5"	H2	41	32	34	35
Double 12 G Steel C	N9, N25, T	23'-9"	H3	45	35	37	39	23'-2"	H3	45	35	37	38	22'-7"	H3	45	35	37	38	22'-1"	H3	46	34	36	38
Steel Cloverleaf	W	4'-3"	A2	25	27	28	30	4'-1"	A2	25	27	29	30	3'-11"	A3	25	28	29	31	3'-10"	A3	25	28	29	31
DBL Steel Cloverleaf	AA	8'-2"	E	31	27	28	30	7'-11"	E	32	27	29	30	7'-9"	E	32	28	29	31	7'-7"	E	32	28	29	31
4x3 I Beam	Y	5'-9"	C	28	27	28	30	5'-6"	C	28	27	29	30	5'-4"	C	28	28	29	31	5'-1"	C	28	28	29	31
7x4 I Beam	Q	9'-1"	E	32	27	28	30	8'-9"	E	33	27	29	30	8'-5"	F	33	28	29	31	8'-2"	F	33	28	29	31

Header	Detail	trib 13'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 14'	Min Post Type	Uplift Footing (in)	8'	10'	12'	trib 15'	Min Post Type	Uplift Footing (in)	8'	10'	12'
On Slab	On Slab	n/a	D					n/a	D					n/a	D				
0.042"x3"x8"	N30	3'-6"	A3	25	28	30	32	3'-4"	A3	26	29	31	32	3'-2"	A3	26	29	31	33
Double 3"x8"	N25	6'-0"	E	30	28	30	32	5'-9"	E	31	29	31	32	5'-5"	E	31	29	31	33
Double 2"x6.625"	N25	5'-8"	E	30	28	30	32	5'-5"	E	30	29	31	32	5'-1"	E	30	29	31	33
5.5" Extruded Fascia	L	5'-2"	D	29	28	30	32	4'-11"	D	29	29	31	32	4'-8"	D	29	29	31	33
California Fascia	N10, G	4'-2"	B	27	28	30	32	4'-0"	C	27	29	31	32	3'-9"	C	27	29	31	33
Classic Fascia	H	9'-0"	G	35	28	30	32	8'-8"	G	35	29	31	32	8'-4"	G	35	29	31	33
16 G Steel C	N9, T	4'-9"	C	28	28	30	32	4'-5"	D	28	29	31	32	4'-2"	C	28	29	31	33
14 G Steel C	N9, T	6'-6"	E	31	28	30	32	6'-0"	E	31	29	31	32	5'-7"	E	31	29	31	33
12 G Steel C	N9, T	11'-5"	H1	38	29	31	32	10'-11"	H1	38	29	31	32	10'-4"	H1	38	29	31	33
Double 16 G Steel C	N9, N25, T	13'-3"	H1	39	30	32	33	12'-9"	H1	40	30	32	33	12'-2"	H1	40	30	31	33
Double 14 G Steel C	N9, N25, T	15'-9"	H2	42	31	33	35	15'-2"	H2	42	31	33	35	14'-6"	H2	43	31	33	34
Double 12 G Steel C	N9, N25, T	21'-3"	H4	46	34	36	38	20'-6"	H4	47	34	36	37	19'-9"	H4	47	33	35	37
Steel Cloverleaf	W	3'-7"	A3	26	28	30	32	3'-5"	A3	26	29	31	32	3'-3"	A3	26	29	31	33
DBL Steel Cloverleaf	AA	7'-4"	E	32	28	30	32	7'-0"	F	33	29	31	32	6'-9"	F	33	29	31	33
4x3 I Beam	Y	4'-10"	D	28	28	30	32	4'-6"	D	28	29	31	32	4'-3"	D	28	29	31	33
7x4 I Beam	Q	7'-8"	F	33	28	30	32	7'-2"	F	33	29	31	32	6'-9"	F	33	29	31	33

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PROFESSIONAL ENGINEER
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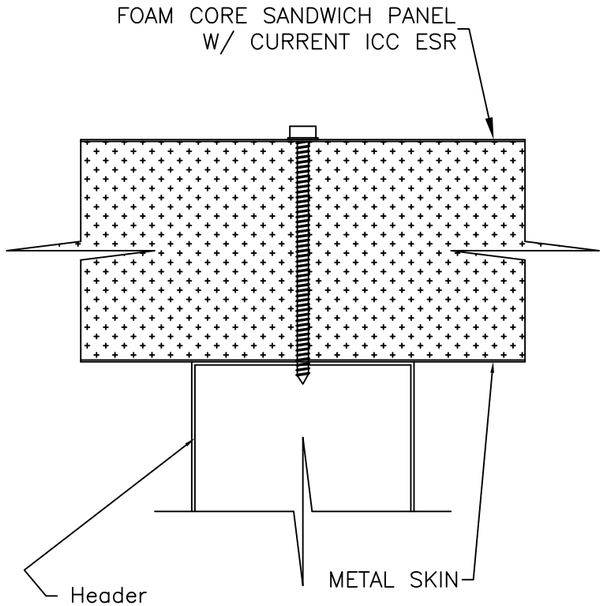
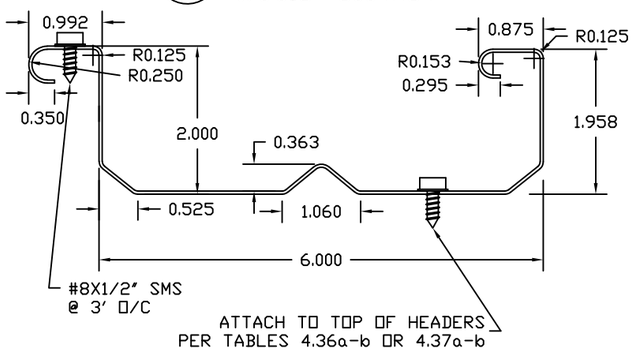
C68139
EXP. 6/30/2025
CIVIL
STATE OF CALIFORNIA

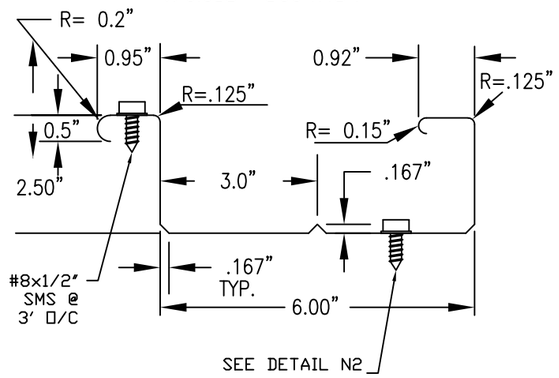
USE OF FOAM CORE SANDWICH PANELS WILL REQUIRE THE USE OF A REGISTERED DESIGN PROFESSIONAL TO COMPLY WITH EXISTING ICC ESR



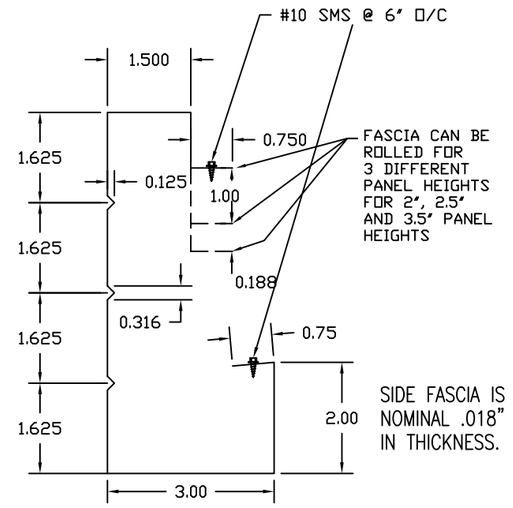
N1 SANDWICH PANEL TO HEADER CONNECTION



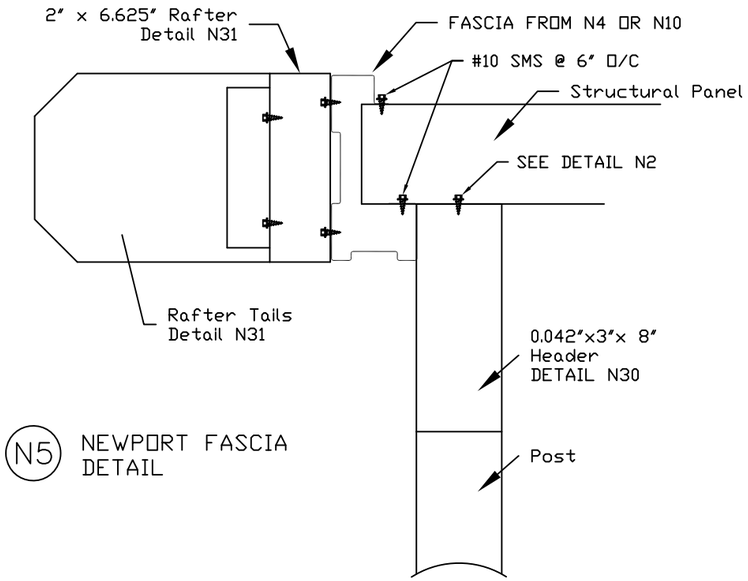
N2 2"x6" ALUM FLAT PANEL
t=0.018" 3004H36
t>0.018" 3004H34



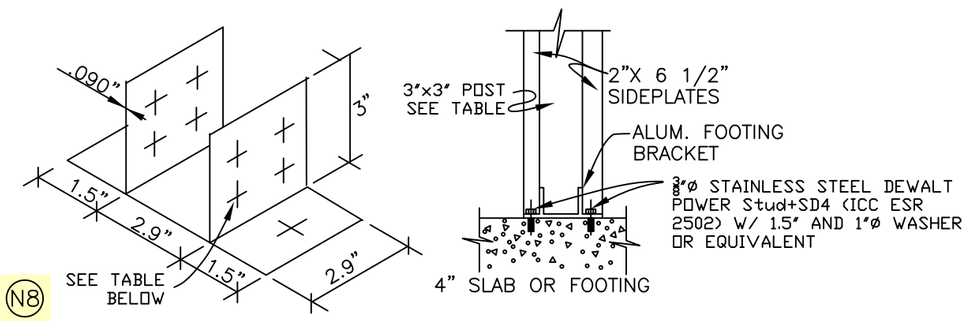
N3 2.5"x6" SUPER SIX
ALUM FLAT PANEL
t=0.018" 3004H36
t>0.018" 3004H34



N4 6 1/2" ROLLFORMED SIDE FASCIA
(3105-H25 ALUM. ALLOY)



N5 NEWPORT FASCIA DETAIL



N8

BRACKET FOR CONNECTING POST TO SLAB OR FOOTING (6063-T6 ALUM ALLOY)
SINGLE SPAN ATTACHED UNITS ONLY

Footing d (in)	Number 0f #14 SMS	3"x3" Post	Concrete Anchors	Maximum Wind Condition for "On Slab" Attachment
24	8	0.024" Alum	3/8"	100 mph Exp B/ 95 mph Exp C
26	10	0.024" Alum	3/8"	115 mph Exp B / 105 mph Exp C
27	8	0.032" Alum	3/8"	125 mph Exp B / 110 mph Exp C
28	4	0.041" Steel	3/8"	125 mph Exp B / 110 mph Exp C

MAY 09 2023

Amerimax EXTERIOR HOME PRODUCTS
28921 US Hwy 74
Romoland, CA 92585

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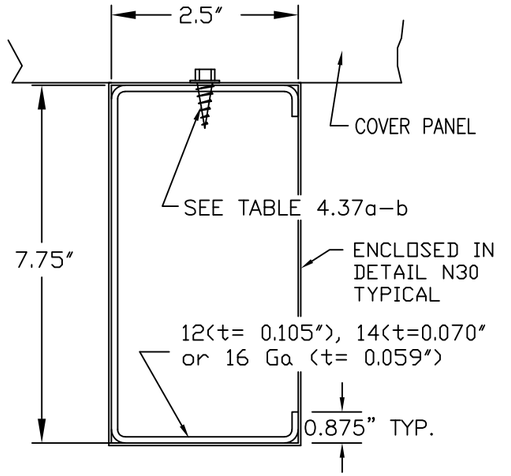
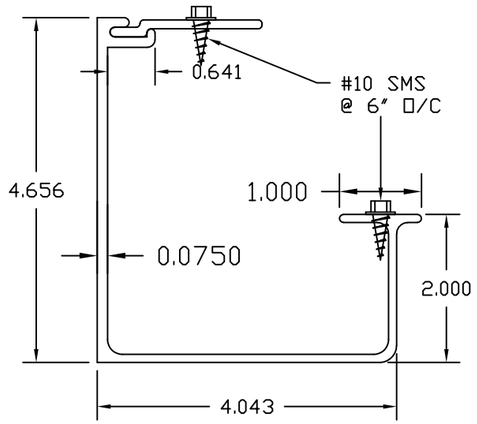
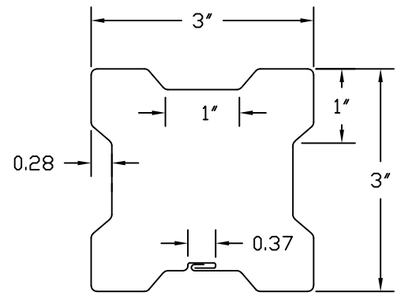
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures	
DATE:	FILE#: NP01-2021	SHEET: 1 of 4



N9 STEEL "C"– CHANNEL HEADER
(STEEL A–653 Fy=50 KSI)



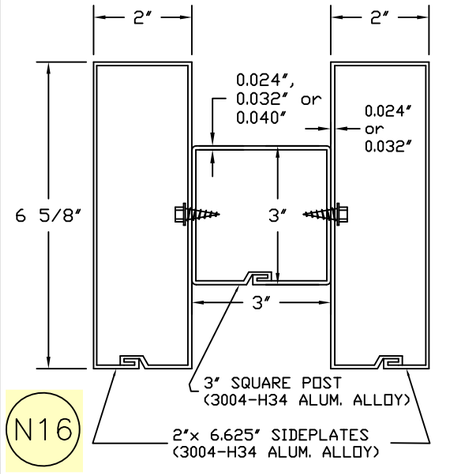
N10 CALIFORNIA FASCIA
(ALUM 6063 T6)



t= 0.030″ ALUM
= 0.040″ ALUM
= 0.041″ STEEL

NOTE:
POSTS MAY BE TRIMMED w/FLEX ALUM. FACING.

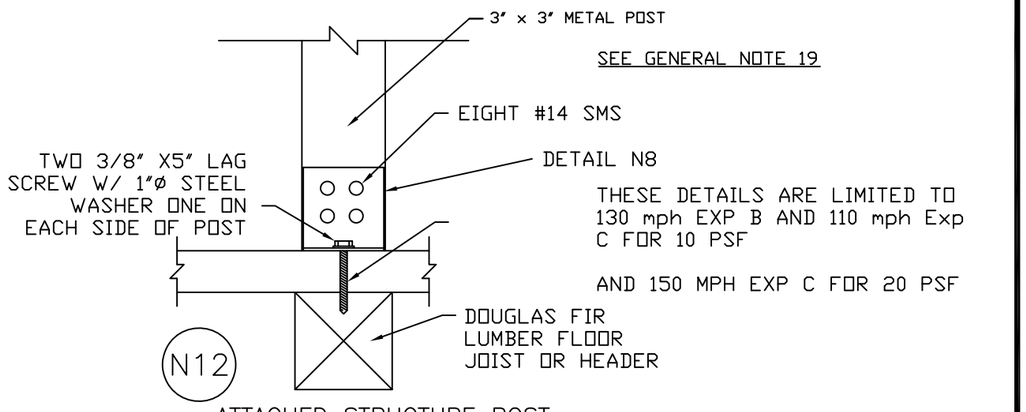
N11 3" ALTERNATE POST
(3105–H25 ALUM. ALLOY OR A–653 Fy=40 KSI STEEL)



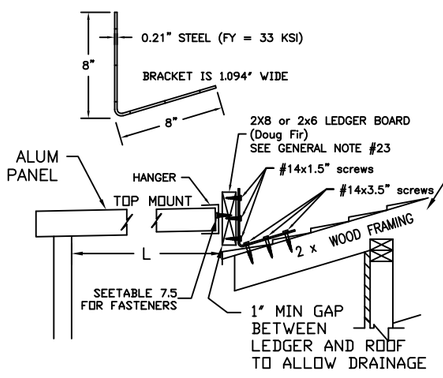
N16 SIDEPLATE CONNECTION DETAIL

Live Load (psf)	Wind Speed and Exposure	MAX "L" FOR TOP OR SIDE MOUNT 16" o/c	24"o/c
10	115 mph Exp B	15'-2"	10'-1"
	130 mph Exp B	13'-7"	9'-1"
	100 mph Exp C	15'-2"	10'-1"
	110 mph Exp C	14'-7"	9'-8"
	115 mph Exp C	13'-10"	9'-3"
	130 mph Exp C	12'-2"	8'-2"
20	115 mph Exp B	10'-3"	6'-9"
	100 mph Exp C	10'-3"	6'-9"
	110 mph Exp C	10'-0"	6'-8"
	115 mph Exp C	9'-8"	6'-6"
	130 mph Exp C	8'-9"	5'-10"

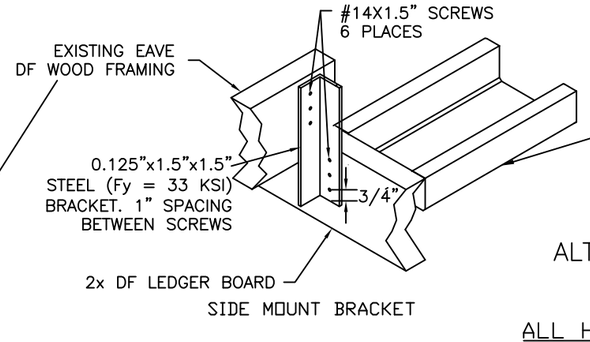
TOP MOUNT BRACKET NOT ALLOWED IN SNOW LOAD AREAS
SEE GENERAL NOTE #9 FOR CORROSION PROTECTION



N12 ATTACHED STRUCTURE POST TO DECK FLOOR JOIST

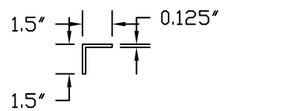


TOP MOUNT BRACKET



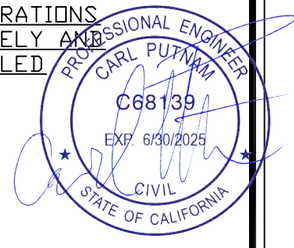
SIDE MOUNT BRACKET

EAVE OVERHANG AND "L" MUST ALSO COMPLY WITH DETAIL N21



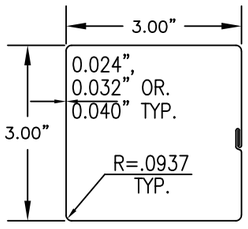
N18 ALTERNATIVE EAVE ATTACHMENT

ALL HOUSE PENETRATIONS MUST BE COMPLETELY AND PERMANENTLY SEALED

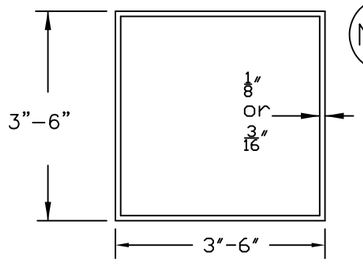


MAY 09 2023

N14



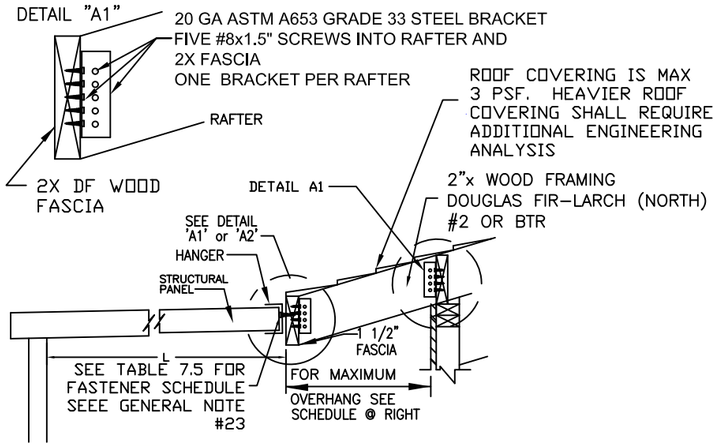
3″ ALUM SQUARE POST
t =0.024″ 3004H34
t =0.040″ 3004H34



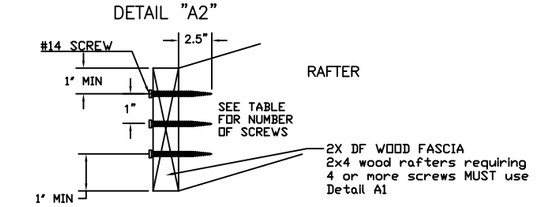
N17 ASTM A500 GRADE B STEEL POST SEE GENERAL NOTE #9 FOR CORROSION PROTECTION

Amerimax EXTERIOR HOME PRODUCTS
28921 US Hwy 74
Romoland, CA 92585

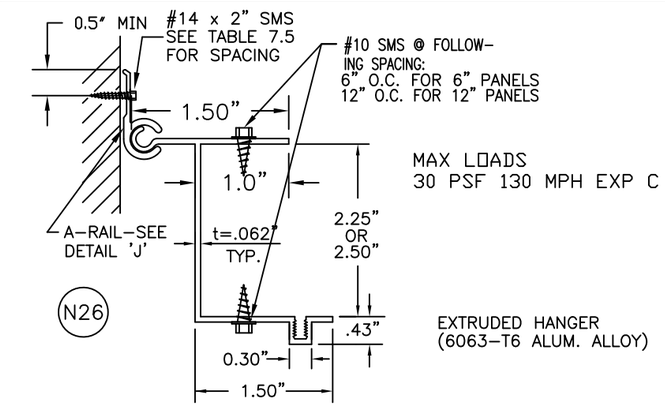
DRAWN BY: BEJ/CP	TYPE:
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures
DATE:	FILE#: NP02–2021 / SHEET: 2 of 4



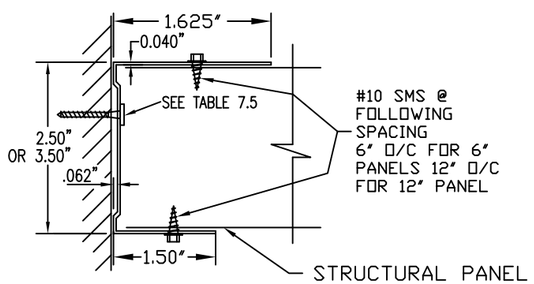
N21 ALTERNATE EAVE ATTACHMENT



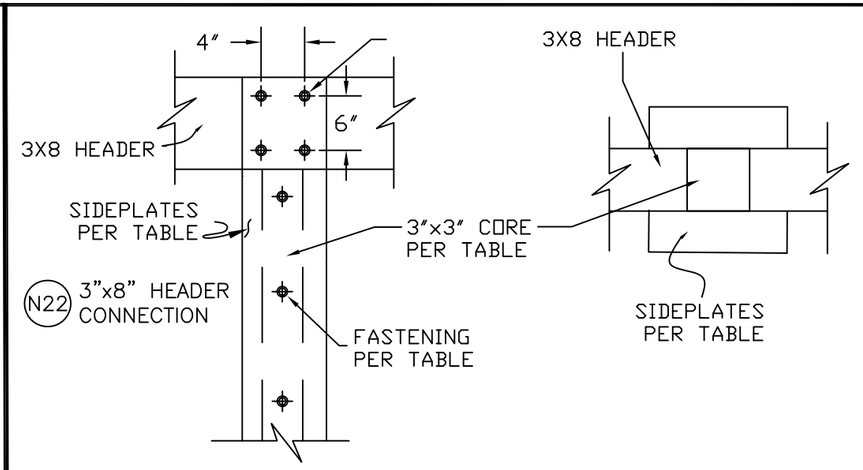
Live/Snow Load Solid Cover Wind (psf)	RAFTER SIZE (24" O/C)	MAX DISTANCE TO FIRST ROW OF POSTS "L" EAVE OVERHANG 6"	12"	18"	24"	30"	# of #14 Screws
10	**2x4**	20'-6"	18'-7"	10'-6"	5'-11"	2'-8"	
115 MPH EXP B	**2x6**	20'-6"	20'-6"	20'-6"	20'-6"	14'-10"	2
	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	
10	**2x4**	20'-6"	18'-7"	10'-6"	5'-11"	2'-8"	
105 MPH EXP C	**2x6**	20'-6"	20'-6"	20'-6"	20'-6"	14'-10"	2
	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	
10	**2x4**	20'-6"	18'-7"	10'-6"	5'-11"	2'-8"	
110 MPH EXP C	**2x6**	20'-6"	20'-6"	20'-6"	20'-6"	14'-10"	2
	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	
10	**2x4**	20'-6"	18'-0"	10'-2"	5'-8"	2'-7"	
115 MPH EXP C	**2x6**	20'-6"	20'-6"	20'-6"	20'-6"	14'-4"	2
	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	
10	**2x4**	20'-6"	16'-6"	9'-3"	5'-2"	2'-4"	
120 MPH EXP C	**2x6**	20'-6"	20'-6"	20'-6"	18'-9"	13'-2"	2
	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	
10	**2x4**	20'-6"	13'-11"	7'-10"	4'-5"	2'-0"	
130 MPH EXP C	**2x6**	20'-6"	20'-6"	20'-6"	15'-11"	11'-2"	3
	2x8	20'-6"	20'-6"	20'-6"	20'-6"	20'-6"	
10	**2x4**	20'-6"	12'-0"	6'-9"	3'-9"	1'-8"	
140 MPH EXP C	**2x6**	20'-6"	20'-6"	19'-11"	13'-8"	9'-7"	3
	2x8	20'-6"	20'-6"	20'-6"	20'-6"	19'-4"	
20	**2x4**	18'-0"	9'-9"	5'-6"	3'-1"	1'-4"	
140 MPH EXP C	**2x6**	18'-0"	18'-0"	16'-2"	11'-1"	7'-9"	3
	2x8	18'-0"	18'-0"	18'-0"	18'-0"	15'-8"	
25	**2x4**	18'-0"	10'-8"	6'-0"	3'-4"	1'-6"	
140 MPH EXP C	**2x6**	18'-0"	18'-0"	17'-9"	12'-2"	8'-6"	3
	2x8	18'-0"	18'-0"	18'-0"	18'-0"	17'-3"	
30	**2x4**	17'-0"	8'-10"	4'-11"	2'-8"	1'-1"	
140 MPH EXP C	**2x6**	17'-0"	17'-0"	14'-9"	10'-0"	6'-11"	3
	2x8	17'-0"	17'-0"	17'-0"	17'-0"	14'-3"	
35.7	**2x4**	16'-0"	7'-4"	3'-11"	1'-11"	0'-6"	
140 MPH EXP C	**2x6**	16'-0"	16'-0"	12'-3"	8'-2"	5'-6"	3
	2x8	16'-0"	16'-0"	16'-0"	15'-11"	11'-8"	
42	**2x4**	13'-11"	6'-1"	3'-2"	1'-4"	0'-1"	
140 MPH EXP C	**2x6**	14'-6"	14'-6"	10'-3"	6'-8"	4'-4"	4
	2x8	14'-6"	14'-6"	14'-6"	13'-4"	9'-7"	
50	**2x4**	11'-8"	5'-0"	2'-5"	0'-10"	0'-0"	
140 MPH EXP C	**2x6**	13'-3"	13'-3"	8'-5"	5'-4"	3'-3"	4
	2x8	13'-3"	13'-3"	13'-3"	10'-11"	7'-8"	
60	**2x4**	9'-8"	4'-0"	1'-9"	0'-4"	0'-0"	
140 MPH EXP C	**2x6**	12'-2"	11'-7"	6'-9"	4'-1"	2'-4"	4
	2x8	12'-2"	12'-2"	12'-2"	8'-9"	6'-0"	



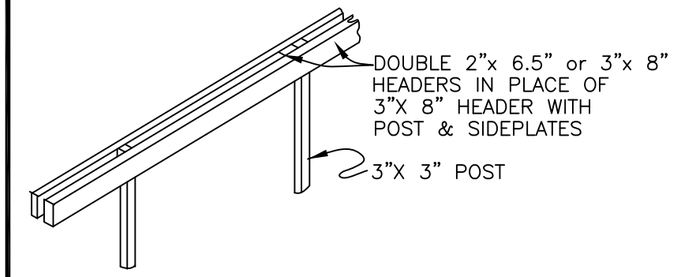
N26 EXTRUDED HANGER (6063-T6 ALUM. ALLOY)



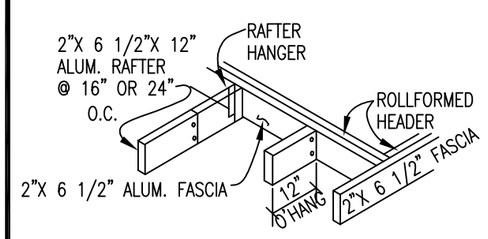
N27 ROLLFORMED HANGER (3004-H34 ALUM. ALLOY)



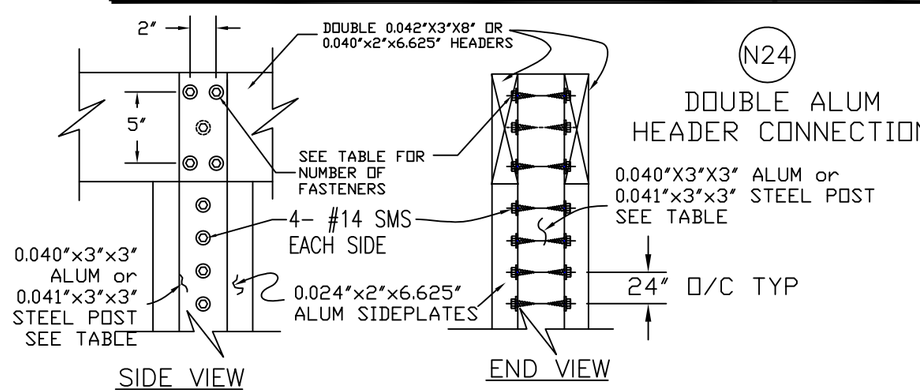
FOOTING d (in)	Number of #14 SMS	Side Plates	3"x3" Core	Maximim Wind Condition for "On Slab" Attachment
26	10	0.024"x2"x6.625"	0.024"	105 mph Exp B
30	8	0.032"x2"x6.625"	0.032"	130 mph Exp B/110 MPH Exp C
31	16	0.024"x2"x6.625"	0.024"	115 mph Exp C
34	12	0.032"x2"x6.625"	0.032"	130 mph Exp C



N25 DOUBLE 0.040"X2"X6.625" HEADERS (DETAIL N31)
DOUBLE 3"X8" HEADER (DETAIL N30)

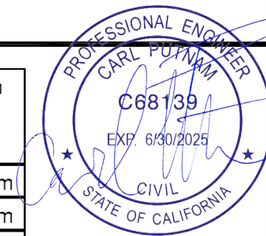


N28 ALTERNATE-DECORATIVE FASCIA TRIM



N24 DOUBLE ALUM HEADER CONNECTION

Max Uplift Footing d (in)	Total Number of #14 SMS	Maximim Wind Condition for "On Slab" Attachment	Minimum 3"x3" Post
29	8	130 mph Exp B/110 mph Exp C	0.040" Alum
31	10	120 mph Exp C	0.040" Alum
33	12	130 mph Exp C	0.040" Alum
32	8	120 mph Exp C	0.041" Steel
35	10	150 mph Exp C	0.041" Steel



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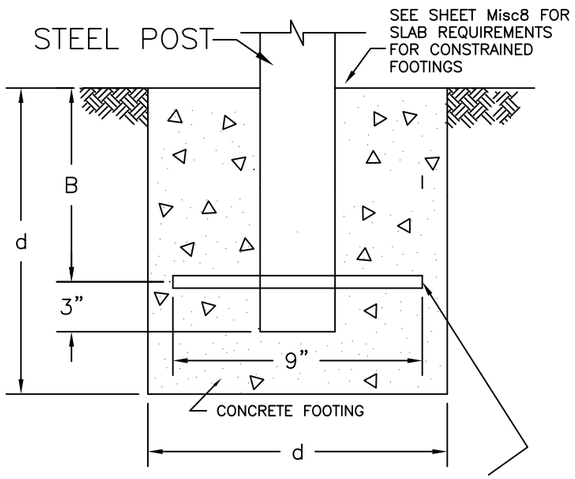
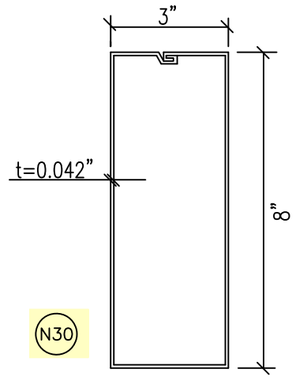
SCALE: NTS	NAME: Component Parts & Connection Details for Newport Patio Structures	
DATE:	FILE#: NP03-2021	SHEET: 3 of 4

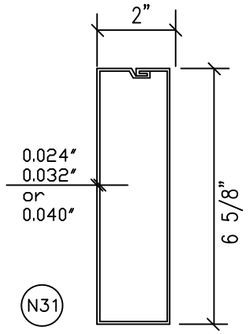


3/8" x 9" STEEL REBAR EMBEDDED AT "B"
d < 33" B = 9"
d < 38" B = 12"
d < 46" B = 18"

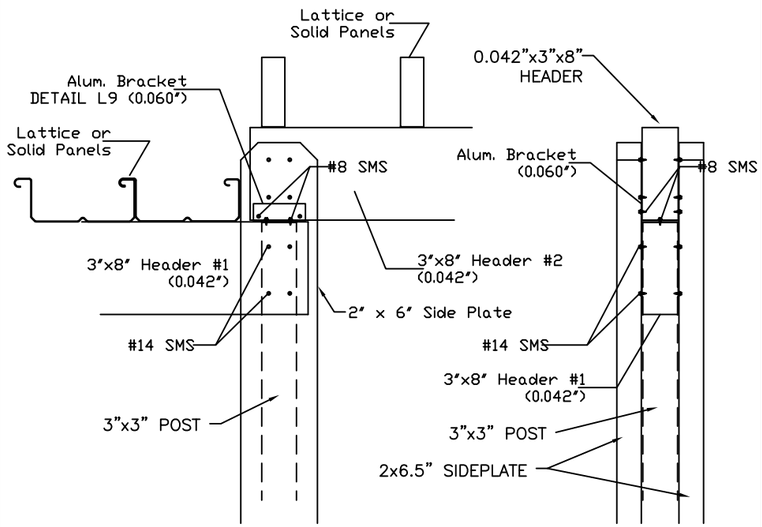
N29 FREESTANDING OR ATTACHED POST/FOOTING CONNECTION



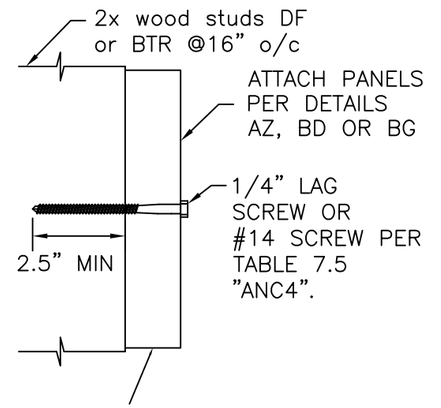
HEADER
(3004-H34 ALUM. ALLOY)



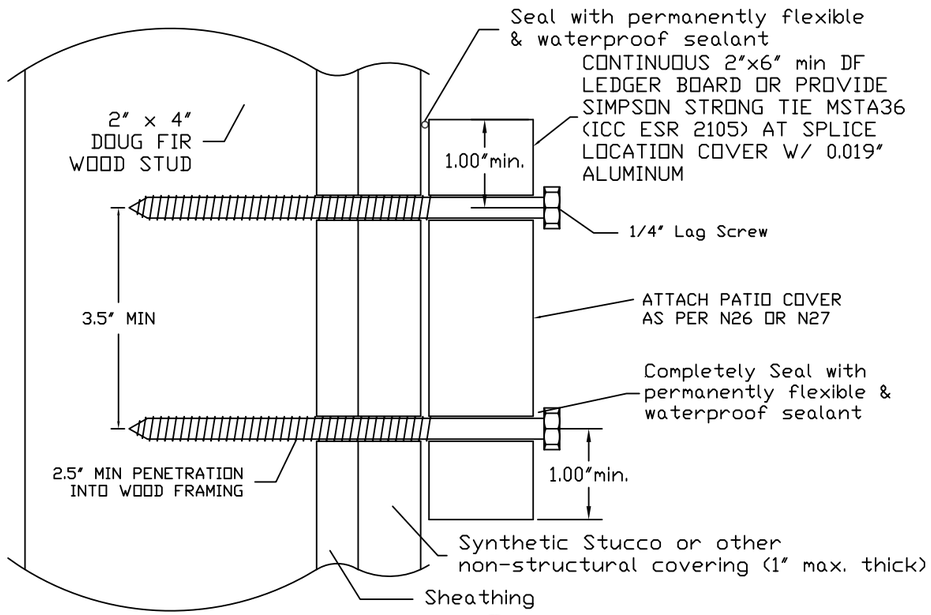
RAFTER & SIDEPLATES
(3004-H34 ALUM. ALLOY)



N32 ALTERNATIVE SPLICE FOR ATTACHED UNITS
USE SAME TABLE IN N22 FOR FOOTING SIZES AND "ON SLAB" WIND CONDITIONS

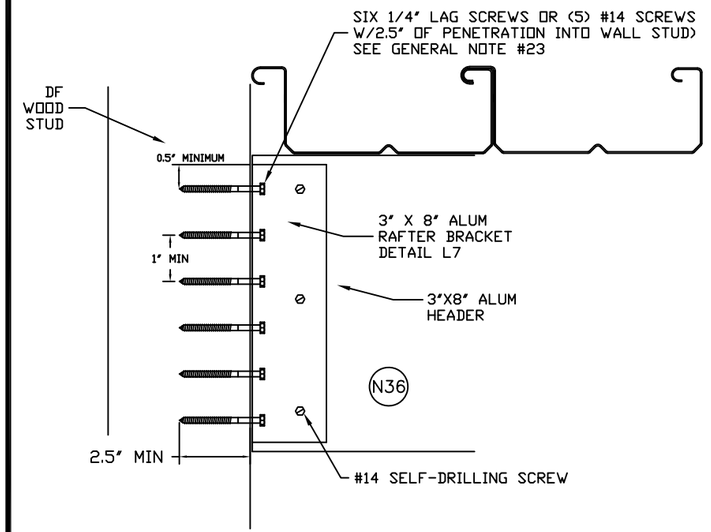


N34 LEDGER BOARD ATTACHMENT



SEE ALLOWABLE DISTANCE TO FIRST ROW OF POSTS IN TABLE 7.7

N33 STUCCO ATTACHMENT DETAIL W/ LEDGER BOARD



POST ALTERNATIVE FOR SLAB ATTACHMENT
MAX WIND LOAD IS
130 MPH EXP B or
110 MPH EXP C

PROFESSIONAL ENGINEER
CARL PUTNAM
C68139
EXP. 6/30/2025
CIVIL
STATE OF CALIFORNIA

MAY 09 2023

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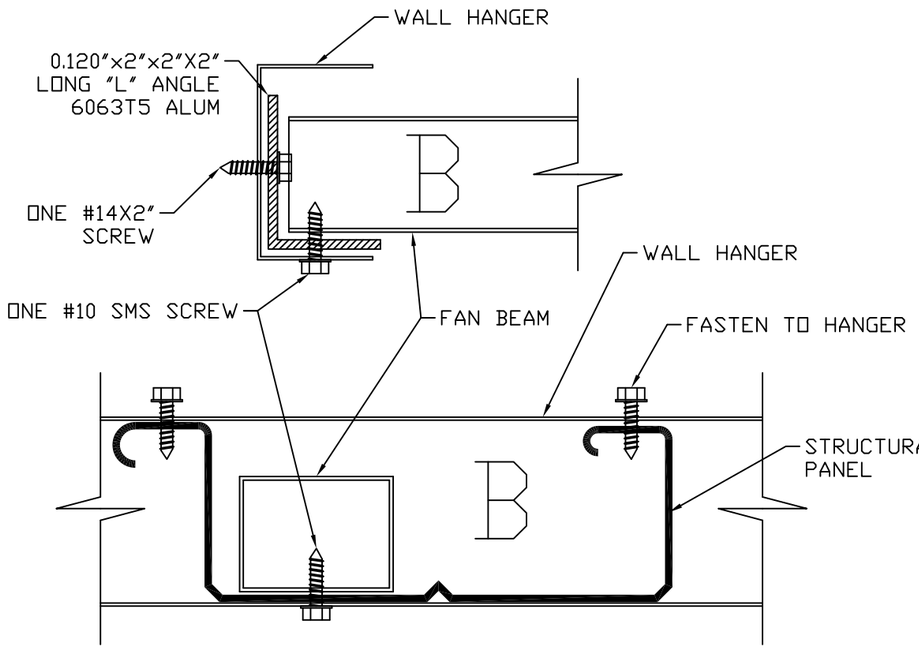
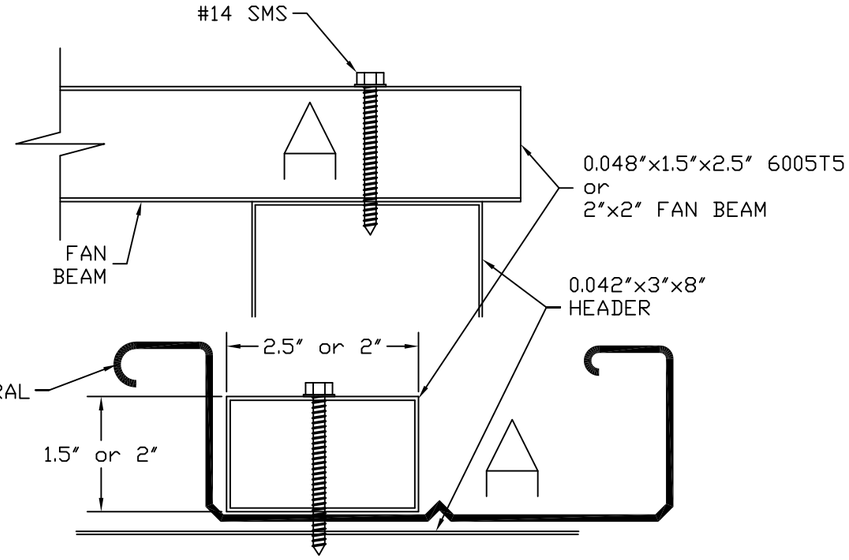
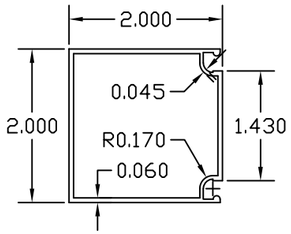
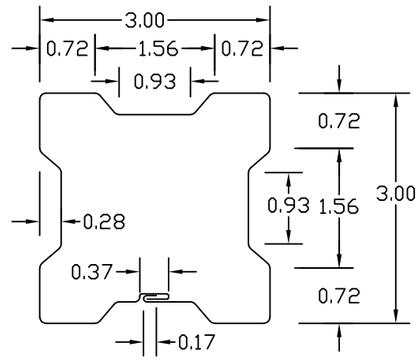
DATE:	FILE#: NP04-2021	SHEET: 4 of 4





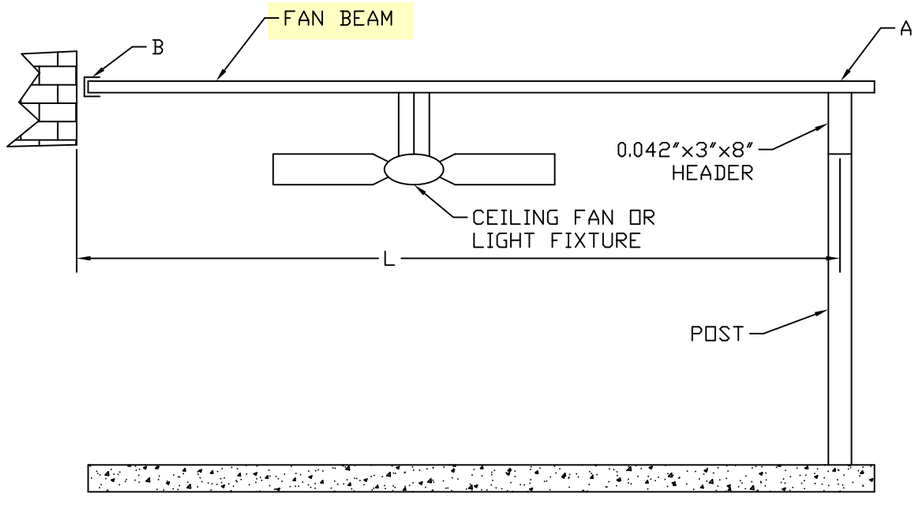


2"X2" FAN BEAM
6063T5 ALUM
NO ORIENTATION SPECIFIED



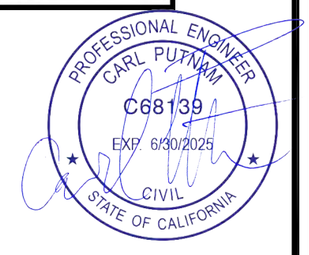
t = 0.041"

3" X 3" CLOVERLEAF HEADER
(A-653 Fy=40 KSI STEEL)



CONFORMANCE TO THE APPLICABLE ELECTRICAL CODE IS OUTSIDE THE SCOPE OF THIS DETAIL AND MUST BE APPROVED SEPERATELY.

Weight of fan/lights	Allowable Fan Beam Spans	
	0.048"x1.5"x2.5"	2"x2" Fan Beam 3x3 Steel Beam
30 lbs	15'-10"	23'



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Amerimax EXTERIOR HOME PRODUCTS

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CP		
SCALE: NTS	NAME: Miscellaneous Details	
DATE:	FILE#: Misc2–2021	SHEET:

7.0 POST AND FASTENER REQUIREMENTS FOR COMMERCIAL AND PATIO STRUCTURES

Trib Width (ft)	Allowable Width for Attached Two Post Structures on Slab Live or Ground Snow Load 10 psf	20 psf
3	45'-5"	23'-9"
3.5	38'-11"	20'-4"
4	34'-1"	17'-10"
4.5	30'-3"	15'-10"
5	27'-3"	14'-3"
5.5	24'-9"	12'-11"
6	22'-8"	11'-10"
6.5	20'-11"	10'-11"
7	19'-5"	10'-2"
7.5	18'-2"	n/a
8	17'-0"	n/a
8.5	16'-0"	n/a
9	15'-1"	n/a

Table 7.1

Table7.3: Required Number of Fasteners for Shearing Loads

			Footer	Design	Aluminum Material Gage (in) 0.024	0.024	0.032	0.032	0.040	0.040	0.060	0.060	Steel Gage (in) 0.041	0.041
					A	B	C	D	E	F	G	H	I	J
					#14	3/8" B	3/8" B	#14	#14	3/8" B	#14	3/8" B	#14	3/8" B
			Size	Uplift	SMS	BOLT	BOLT	SMS	SMS	BOLT	SMS	BOLT	SMS	BOLT
			d (in)	(lbs)	96	590	788	171	210	924	320	1384	507	2030
			12	90	1	1	1	1	1	1	1	1	1	1
			13	114	2	1	1	1	1	1	1	1	1	1
			14	143	2	1	1	1	1	1	1	1	1	1
			15	176	2	1	1	2	1	1	1	1	1	1
			16	213	3	1	1	2	2	1	1	1	1	1
			17	256	3	1	1	2	2	1	1	1	1	1
			18	304	4	1	1	2	2	1	1	1	1	1
			19	357	4	1	1	3	2	1	2	1	1	1
			20	417	5	1	1	3	2	1	2	1	1	1
			21	482	6	1	1	3	3	1	2	1	1	1
			22	555	6	1	1	4	3	1	2	1	2	1
			23	634	7	2	1	4	4	1	2	1	2	1
			24	720	8	2	1	5	4	1	3	1	2	1
	20 psf	**Slab 115C**	25	814	9	2	2	5	4	1	3	1	2	1
Lattice Slab 115C	**10 psf**	**Slab 105B**	881		10	2	2	6	5	1	3	1	2	1
			26	915	10	2	2	6	5	1	3	1	2	1
	10 psf	**Slab 110B**	969		11	2	2	6	5	2	4	1	2	1
			27	1025	11	2	2	6	5	2	4	1	3	1
	10 psf	**Slab 115B**	1056		11	2	2	7	6	2	4	1	3	1
			28	1143	12	2	2	7	6	2	4	1	3	1
			29	1270	14	3	2	8	7	2	4	1	3	1
	10 psf	**Slab 110C**	1309		14	3	2	8	7	2	5	1	3	1
			30	1406	15	3	2	9	7	2	5	2	3	1
	10 psf	**Slab 115C**	1475		16	3	2	9	8	2	5	2	3	1
			31	1552	n/a	3	2	10	8	2	5	2	4	1
			32	1707	n/a	3	3	10	9	2	6	2	4	1
			33	1872	n/a	4	3	11	9	3	6	2	4	1
			34	2047	n/a	4	3	12	10	3	7	2	5	2
			35	2233	n/a	4	3	14	11	3	7	2	5	2
			36	2430	n/a	5	4	15	12	3	8	2	5	2
			37	2638	n/a	5	4	16	13	3	9	2	6	2
			38	2858	n/a	5	4	n/a	14	4	9	3	6	2
			39	3090	n/a	6	4	n/a	15	4	10	3	7	2
			40	3333	n/a	6	5	n/a	16	4	11	3	7	2
			41	3590	n/a	7	5	n/a	n/a	4	12	3	8	2
			42	3859	n/a	7	5	n/a	n/a	5	13	3	8	2
			43	4141	n/a	8	6	n/a	n/a	5	13	3	9	3
			44	4437	n/a	8	6	n/a	n/a	5	14	4	9	3
			45	4746	n/a	9	7	n/a	n/a	6	15	4	10	3
			46	5070	n/a	9	7	n/a	n/a	6	16	4	10	3
			47	5407	n/a	10	7	n/a	n/a	6	n/a	4	11	3
			48	5760	n/a	10	8	n/a	n/a	7	n/a	5	12	3
			49	6128	n/a	11	8	n/a	n/a	7	n/a	5	13	4
			50	6510	n/a	12	9	n/a	n/a	8	n/a	5	13	4

Table 7.4: Required Number of Fasteners for Tension Loads

Aluminum Gage (in) 0.036	0.06	0.060	0.090	0.090		
K	L	M	N	O		
3/8" B	#14	3/8" B	3/8" B	#14	Design	Footer
BOLT	SMS	BOLT	BOLT	SMS	Uplift	Size
369	153	577	865	213	(lbs)	d (in)
1	1	1	1	1	90	12
1	1	1	1	1	114	13
1	1	1	1	1	143	14
1	2	1	1	1	176	15
1	2	1	1	2	213	16
1	2	1	1	2	256	17
1	2	1	1	2	304	18
1	3	1	1	2	357	19
2	3	1	1	2	417	20
2	4	1	1	3	482	21
2	4	1	1	3	555	22
2	5	2	1	3	634	23
2	5	2	1	4	720	24
3	6	2	1	4	814	25
3	6	2	2	5	881	Slab
3	6	2	2	5	915	26
3	7	2	2	5	969	Slab
3	7	2	2	5	1025	27
3	7	2	2	5	1056	Slab
4	8	2	2	6	1143	28
4	9	3	2	6	1270	29
4	9	3	2	7	1309	Slab
4	10	3	2	7	1406	30
4	10	3	2	7	1475	Slab
5	11	3	2	8	1552	31
5	12	3	2	9	1707	32
6	13	4	3	9	1872	33
6	14	4	3	10	2047	34
7	15	4	3	11	2233	35
7	16	5	3	12	2430	36
8	n/a	5	4	13	2638	37
8	n/a	5	4	14	2858	38
9	n/a	6	4	15	3090	39
10	n/a	6	4	16	3333	40
10	n/a	7	5	n/a	3590	41
11	n/a	7	5	n/a	3859	42
12	n/a	8	5	n/a	4141	43
13	n/a	8	6	n/a	4437	44
13	n/a	9	6	n/a	4746	45
14	n/a	9	6	n/a	5070	46
15	n/a	10	7	n/a	5407	47
16	n/a	10	7	n/a	5760	48
n/a	n/a	11	8	n/a	6128	49
n/a	n/a	12	8	n/a	6510	50

Fastener Terminology
#14 SMS = #14 sheet metal or SDS screw, 1/2" minimum length
3/8" B = 3/8" Diameter Steel Bolt
See General Notes for specifics on fasteners

1 Spacing between bolts and screws shall be 2.5 times the shank diamter.
2 The edge distance of bolts and screws shall be 3 times the shank diameter
3 Connections shall be arranged so that the center of resistance of the connection shall coincide with the resultant line of action of the load.

TABLE 7.6: WALL ATTACHMENTS FOR LATTICE COVERS

GRND SNOW LOAD (PSF)	Wind Speed and Exposure	# of Screws* per Rafter	ALUMINUM RAFTER SPACING 12"	16"	20"	24"	32"	36"
			MAXIMUM ALUMINUM RAFTER SPAN					
10	160 Exp B	2	26.0'	26.0'	20.0'	21.5'	16.5'	14.5'
LIVE	140 Exp C	3	26.0'	26.0'	20.0'	21.5'	19.0'	18.0'
20	170 Exp B	2	19.0'	17.5'	14.0'	11.5'	8.5'	7.5'
LIVE	170 Exp C	3	19.0'	19.0'	18.0'	16.0'	13.0'	11.5'
25	170 Exp C	2	18.0'	18.0'	14.0'	12.5'	9.5'	8.5'
30	170 Exp C	2	17.0'	16.0'	13.0'	10.5'	8.0'	7.0'
36	170 Exp C	2	16.0'	13.5'	10.5'	9.0'	6.5'	6.0'
42	170 Exp C	2	14.0'	11.5'	9.0'	7.5'	5.5'	5.0'
50	170 Exp C	2	13.0'	9.5'	7.5'	6.5'	4.5'	4.0'
60	170 Exp C	2	11.0'	8.0'	6.5'	5.5'	4.0'	3.5'
		3	12.0'	12.0'	9.5'	8.0'	6.0'	5.5'

*Screws are #14 screws w/ 1.5" embedment into G=0.5 solid wood (Douglas Fir)

TABLE 7.7 STUCCO ATTACHMENT TO WALL
ALLOWABLE DISTANCE TO FIRST ROW OF POSTS

Ground Snow Load (psf)		1/4" Lag Screws 16" o/c 1	2	3	4	Wind Speed (mph)	Exp
Live	10	9'-1"	18'-2"	19'-0"	19'-0"	120	B
or	10	9'-1"	18'-2"	19'-0"	19'-0"	105	C
Snow	10	8'-4"	16'-9"	19'-0"	19'-0"	110	C
	10	7'-8"	15'-5"	19'-0"	19'-0"	115	C
	10	6'-1"	12'-2"	18'-3"	19'-0"	130	C
	10	4'-7"	9'-2"	13'-10"	18'-5"	150	C
Live	20	4'-11"	9'-11"	14'-10"	17'-0"	130	C
or	20	4'-11"	9'-11"	14'-10"	17'-0"	140	C
Snow	20	4'-7"	9'-2"	13'-10"	17'-0"	150	C
	25	5'-5"	10'-10"	16'-0"	16'-0"	130	C
	25	5'-3"	10'-6"	15'-10"	16'-0"	140	C
	25	4'-7"	9'-2"	13'-10"	16'-0"	150	C
	30	4'-7"	9'-2"	13'-9"	15'-0"	130	C
	30	4'-7"	9'-2"	13'-9"	15'-0"	140	C
	30	4'-6"	9'-1"	13'-8"	15'-0"	150	C
	35.7	3'-10"	7'-9"	11'-8"	15'-0"	140	C
	35.7	3'-10"	7'-9"	11'-8"	15'-0"	150	C
	42	3'-4"	6'-8"	10'-0"	13'-5"	140	C
	42	3'-4"	6'-8"	10'-0"	13'-5"	150	C
	50	2'-10"	5'-8"	8'-6"	11'-4"	150	C
	60	2'-4"	4'-9"	7'-2"	9'-6"	150	C

Lag = 1/4" Lag Screw with 2.5" penetration into G=0.5 wood (Douglas Fir)
Lattice Structures always use 115 mph Exposure B for the wind condition

Notes for Table 7.5
#1 Clearspan on this chart is the distance from the wall to the first row of posts.
#2 (ANC1) DEWALT Power Stud+ SD4 3/8" diameter and 1.5" embed and 1" dia steel washer: ICC ESR 2502 or other anchor w/ 320# allowable shear and 170# allowable tensile vs live, snow, wind and seismic loads.
#3 (ANC2) Masonry anchors must have an allowable shear value of 320# and 170# tensile for live, snow, wind or seismic loads or be specified by a design professional.
#4 (ANC3) #14 screws must have 1.5" of penetration into solid wood.
#5 (ANC 4) 1/4" Lag screws must have 2 1/4" of penetration into studs and 0.5" washers Lag and wood screws must be installed as per AWC NDS Section 12.1.4 and 12.1.5. See General Note #11 for washer specifications.
#6 10 and 20 psf are live or snow loads, 25- 60 psf are snow loads.
#7 For ANC3 and ANC4 wood framing imust be SG=0.5 or denser (Douglas Fir- Larch)
#8 "n/a" indicates maximum panel span in this report or ICC ESR 2488 was reached by a lesser amount of fasteners.

TABLE 7.5: WALL ATTACHMENTS FOR SOLID COVER STRUCTURES

LIVE/ SNOW LOAD (PSF)	WIND SPEED (MPH) AND EXPOSURE		ALLOWABLE PANEL SPAN FOR GIVEN FASTENER AND NUMBER CONCRETE (#2) OR MASONRY (#3) ANCHOR O/C SPACING 16"	8"	#14 SCREW (#4) PER 16" 1/4" LAG SCREW (#5) PER 16" 1	2	3	4
10	105	B	21'	n/a	18'	21'	n/a	n/a
10	100	C	21'	n/a	18'	21'	n/a	n/a
10	110	C	21'	n/a	16.5'	21'	n/a	n/a
10	115	C	17'	n/a	15'	18'	n/a	n/a
10	130	C	16'	n/a	11.5'	17'	n/a	n/a
10	140	C	15'	n/a	10'	16'	n/a	n/a
10	150	C	13'	14.5'	8.5'	15'	n/a	n/a
10	170	C	10'	12.5'	6.5'	13'	n/a	n/a
20	110	C	15'	n/a	9.5'	15'	n/a	n/a
20	130	C	14'	n/a	9.5'	14'	n/a	n/a
20	170	C	10'	12.5'	6.5'	13'	n/a	n/a
25	110	C	15'	n/a	10'	15'	n/a	n/a
25	115	C	14.5'	n/a	10'	15'	n/a	n/a
25	130	C	14'	n/a	10'	14'	n/a	n/a
30	110	C	14'	n/a	8.5'	15'	n/a	n/a
30	115	C	14'	n/a	8.5'	14'	n/a	n/a
30	130	C	13.5'	n/a	8.5'	14'	n/a	n/a
35.7	115	C	13.5'		7'	14'	n/a	n/a
35.7	130	C	13'	13.5'	7'	14'	n/a	n/a
42	110	C	13'	13.5'	6'	13'	14'	n/a
42	130	C	11.5'	13'	6'	13'	14'	n/a
50	130	C	10.5'	12'	5'	10'	13'	n/a
60	130	C	9'	11'	4'	8'	12'	n/a

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